

## SEQUENCE LISTING

&lt;110&gt; BayerHealthcare AG

&lt;120&gt; METHODS AND KITS FOR INVESTIGATING CANCER

&lt;130&gt; BHC-0301001-fc

&lt;150&gt; EP 03022587.4

&lt;151&gt; 2003-10-06

&lt;160&gt; 571

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 1978

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 3285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

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&lt;210&gt; 4

&lt;211&gt; 1976

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

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&lt;210&gt; 5

&lt;211&gt; 3579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 1396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

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&lt;211&gt; 2465

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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&lt;211&gt; 2160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 8

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&lt;211&gt; 9725

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 9

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&lt;210&gt; 22

&lt;211&gt; 1530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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&lt;210&gt; 23

&lt;211&gt; 2863

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

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&lt;210&gt; 24

&lt;211&gt; 4237

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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&lt;210&gt; 25

&lt;211&gt; 890

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 25

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&lt;211&gt; 2099

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 28

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&lt;213&gt; Homo sapiens

&lt;400&gt; 38

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

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&lt;211&gt; 2538

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

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&lt;210&gt; 58

&lt;211&gt; 863

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 58

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&lt;211&gt; 3052

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 59

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&lt;210&gt; 60

&lt;211&gt; 1789

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 60

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&lt;210&gt; 61

&lt;211&gt; 3164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

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&lt;210&gt; 62

&lt;211&gt; 1121

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

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&lt;210&gt; 63

&lt;211&gt; 1258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

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&lt;210&gt; 64

&lt;211&gt; 2668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

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&lt;210&gt; 65

&lt;211&gt; 5003

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

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&lt;210&gt; 66

&lt;211&gt; 1340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 66

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&lt;210&gt; 67

&lt;211&gt; 5426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 1658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

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&lt;211&gt; 2444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 77

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&lt;210&gt; 78

&lt;211&gt; 2648

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

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&lt;210&gt; 79

&lt;211&gt; 7193

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

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&lt;210&gt; 80

&lt;211&gt; 2907

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

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&lt;210&gt; 81

&lt;211&gt; 2398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

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&lt;210&gt; 82

&lt;211&gt; 2197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

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&lt;210&gt; 83

&lt;211&gt; 2201

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 83

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&lt;210&gt; 84

&lt;211&gt; 1233

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

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&lt;211&gt; 3139

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 4530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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&lt;210&gt; 87

&lt;211&gt; 2629

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 87

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&lt;210&gt; 93

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

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aaa						963

&lt;210&gt; 94

&lt;211&gt; 848

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (671)..(671)

&lt;223&gt; n = a, t, g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (677)..(677)

&lt;223&gt; n = a, t, g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (737)..(737)

&lt;223&gt; n = a, t, g, or c

&lt;400&gt; 94

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tctctatt						848

&lt;210&gt; 95

&lt;211&gt; 749

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

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aatcacagc	cacagtgcac	acatgctgc				749

&lt;210&gt; 96

&lt;211&gt; 1865

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

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aacta						1865

&lt;210&gt; 97

&lt;211&gt; 898

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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&lt;210&gt; 98

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 3275

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 2399

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 100

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&lt;213&gt; Homo sapiens

&lt;400&gt; 102

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 707

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (513)..(513)

&lt;223&gt; n = a, t, g, or c

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&lt;222&gt; (553)..(553)

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&lt;221&gt; misc feature

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&lt;222&gt; (631)..(631)

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&lt;221&gt; misc feature

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 121

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&lt;213&gt; Homo sapiens

&lt;400&gt; 122

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&lt;210&gt; 123

&lt;211&gt; 942

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

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 <212> DNA  
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&lt;211&gt; 1424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 125

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&lt;210&gt; 126

&lt;211&gt; 2836

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;210&gt; 127

&lt;211&gt; 1677

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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&lt;210&gt; 128

&lt;211&gt; 3837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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&lt;211&gt; 4020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

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&lt;211&gt; 3737

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 135

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&lt;210&gt; 136

&lt;211&gt; 2477

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 136

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&lt;210&gt; 137

&lt;211&gt; 1341

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

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&lt;210&gt; 138

&lt;211&gt; 2449

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

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&lt;210&gt; 139

&lt;211&gt; 2175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

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&lt;210&gt; 140

&lt;211&gt; 1834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 140

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&lt;210&gt; 141

&lt;211&gt; 1286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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 <220>  
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 <223> n = a, t, g, or c  
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 <221> misc feature  
 <222> (805)..(805)  
 <223> n = a, t, g, or c  
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&lt;211&gt; 4917

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&lt;213&gt; Homo sapiens

&lt;400&gt; 150

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&lt;210&gt; 151

&lt;211&gt; 1804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 151

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&lt;213&gt; Homo sapiens

&lt;400&gt; 152

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&lt;210&gt; 160

&lt;211&gt; 2722

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

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&lt;211&gt; 2208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

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&lt;210&gt; 162

&lt;211&gt; 2373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

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&lt;210&gt; 163

&lt;211&gt; 9645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

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&lt;210&gt; 166

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 166

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Met Trp Gln Leu Trp Ala Ser Leu Cys Cys Leu Leu Val Leu Ala Asn
1      5      10      15
Ala Arg Ser Arg Pro Ser Phe His Pro Leu Ser Asp Glu Leu Val Asn
20     25     30
Tyr Val Asn Lys Arg Asn Thr Thr Trp Gln Ala Gly His Asn Phe Tyr
35     40     45
Asn Val Asp Met Ser Tyr Leu Lys Arg Leu Cys Gly Thr Phe Leu Gly
50     55     60
Gly Pro Lys Pro Pro Gln Arg Val Met Phe Thr Glu Asp Leu Lys Leu
65     70     75     80
Pro Ala Ser Phe Asp Ala Arg Glu Gln Trp Pro Gln Cys Pro Thr Ile
85     90     95
Lys Glu Ile Arg Asp Gln Gly Ser Cys Gly Ser Cys Trp Ala Phe Gly
100    105    110
Ala Val Glu Ala Ile Ser Asp Arg Ile Cys Ile His Thr Asn Ala His
115    120    125
Val Ser Val Glu Val Ser Ala Glu Asp Leu Leu Thr Cys Cys Gly Ser
130    135    140
Met Cys Gly Asp Gly Cys Asn Gly Gly Tyr Pro Ala Glu Ala Trp Asn
145    150    155    160
Phe Trp Thr Arg Lys Gly Leu Val Ser Gly Gly Leu Tyr Glu Ser His
165    170    175
Val Gly Cys Arg Pro Tyr Ser Ile Pro Pro Cys Glu His His Val Asn
180    185    190
Gly Ser Arg Pro Pro Cys Thr Gly Glu Gly Asp Thr Pro Lys Cys Ser
195    200    205
Lys Ile Cys Glu Pro Gly Tyr Ser Pro Thr Tyr Lys Gln Asp Lys His
210    215    220
Tyr Gly Tyr Asn Ser Tyr Ser Val Ser Asn Ser Glu Lys Asp Ile Met
225    230    235    240
Ala Glu Ile Tyr Lys Asn Gly Pro Val Glu Gly Ala Phe Ser Val Tyr
245    250    255
Ser Asp Phe Leu Leu Tyr Lys Ser Gly Val Tyr Gln His Val Thr Gly
260    265    270
Glu Met Met Gly Gly His Ala Ile Arg Ile Leu Gly Trp Gly Val Glu
275    280    285
Asn Gly Thr Pro Tyr Trp Leu Val Ala Asn Ser Trp Asn Thr Asp Trp
290    295    300
Gly Asp Asn Gly Phe Phe Lys Ile Leu Arg Gly Gln Asp His Cys Gly
305    310    315    320
Ile Glu Ser Glu Val Val Ala Gly Ile Pro Arg Thr Asp Gln Tyr Trp
325    330    335
Glu Lys Ile

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&lt;210&gt; 167

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

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Met Arg Leu Leu Pro Arg Leu Leu Leu Leu Leu Leu Val Phe Pro
1      5      10      15

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Ala Thr Val Leu Phe Arg Gly Gly Pro Arg Gly Ser Leu Ala Val Ala  
 20 25 30  
 Gln Asp Leu Thr Glu Asp Glu Glu Thr Val Glu Asp Ser Ile Ile Glu  
 35 40 45  
 Asp Glu Asp Asp Glu Ala Glu Val Glu Glu Asp Glu Pro Thr Asp Leu  
 50 55 60  
 Val Glu Asp Lys Glu Glu Glu Asp Val Ser Gly Glu Pro Glu Ala Ser  
 65 70 75 80  
 Pro Ser Ala Asp Thr Thr Ile Leu Phe Val Lys Gly Glu Asp Phe Pro  
 85 90 95  
 Ala Asn Asn Ile Val Lys Phe Leu Val Gly Phe Thr Asn Lys Gly Thr  
 100 105 110  
 Glu Asp Phe Ile Val Glu Ser Leu Asp Ala Ser Phe Arg Tyr Pro Gln  
 115 120 125  
 Asp His Gln Phe Tyr Ile Gln Asn Phe Thr Ala Leu Pro Leu Asn Thr  
 130 135 140  
 Val Val Pro Pro Gln Arg Gln Ala Thr Phe Glu Tyr Ser Phe Ile Pro  
 145 150 155 160  
 Ala Glu Pro Met Gly Gly Arg Pro Phe Gly Leu Val Ile Asn Leu Asn  
 165 170 175  
 Tyr Lys Asp Leu Asn Gly Asn Val Phe Gln Asp Ala Val Phe Asn Gln  
 180 185 190  
 Thr Val Thr Val Ile Glu Arg Glu Asp Gly Leu Asp Gly Glu Thr Ile  
 195 200 205  
 Phe Met Tyr Met Phe Leu Ala Gly Leu Gly Leu Leu Val Ile Val Gly  
 210 215 220  
 Leu His Gln Leu Leu Glu Ser Arg Lys Arg Lys Arg Pro Ile Gln Lys  
 225 230 235 240  
 Val Glu Met Gly Thr Ser Ser Gln Asn Asp Val Asp Met Ser Trp Ile  
 245 250 255  
 Pro Gln Glu Thr Leu Asn Gln Ile Asn Lys Ala Ser Pro Arg Arg Leu  
 260 265 270  
 Pro Arg Lys Arg Ala Gln Lys Arg Ser Val Gly Ser Asp Glu  
 275 280 285

&lt;210&gt; 168

&lt;211&gt; 433

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

Met Pro Asp Tyr Leu Gly Ala Asp Gln Arg Lys Thr Lys Glu Asp Glu  
 1 5 10 15  
 Lys Asp Asp Lys Pro Ile Arg Ala Leu Asp Glu Gly Asp Ile Ala Leu  
 20 25 30  
 Leu Lys Thr Tyr Gly Gln Ser Thr Tyr Ser Arg Gln Ile Lys Gln Val  
 35 40 45  
 Glu Asp Asp Ile Gln Gln Leu Leu Lys Lys Ile Asn Glu Leu Thr Gly  
 50 55 60  
 Ile Lys Glu Ser Asp Thr Gly Leu Ala Pro Pro Ala Leu Trp Asp Leu  
 65 70 75 80  
 Ala Ala Asp Lys Gln Thr Leu Gln Ser Glu Gln Pro Leu Gln Val Ala  
 85 90 95  
 Arg Cys Thr Lys Ile Ile Asn Ala Asp Ser Glu Asp Pro Lys Tyr Ile  
 100 105 110  
 Ile Asn Val Lys Gln Phe Ala Lys Phe Val Val Asp Leu Ser Asp Gln  
 115 120 125  
 Val Ala Pro Thr Asp Ile Glu Glu Gly Met Arg Val Gly Val Asp Arg  
 130 135 140  
 Asn Lys Tyr Gln Ile His Ile Pro Leu Pro Pro Lys Ile Asp Pro Thr  
 145 150 155 160  
 Val Thr Met Met Gln Val Glu Glu Lys Pro Asp Val Thr Tyr Ser Asp  
 165 170 175  
 Val Gly Gly Cys Lys Glu Gln Ile Glu Lys Leu Arg Glu Val Val Glu  
 180 185 190  
 Thr Pro Leu Leu His Pro Glu Arg Phe Val Asn Leu Gly Ile Glu Pro  
 195 200 205  
 Pro Lys Gly Val Leu Leu Phe Gly Pro Pro Gly Thr Gly Lys Thr Leu  
 210 215 220  
 Cys Ala Arg Ala Val Ala Asn Arg Thr Asp Ala Cys Phe Ile Arg Val

225	Ile	Gly	Ser	Glu	Leu	Val	Gln	Lys	Tyr	Val	Gly	Glu	Gly	Ala	Arg	Met
					245					250						255
	Val	Arg	Glu	Leu	Phe	Glu	Met	Ala	Arg	Thr	Lys	Lys	Ala	Cys	Leu	Ile
				260					265							270
	Phe	Phe	Asp	Glu	Ile	Asp	Ala	Ile	Gly	Gly	Ala	Arg	Phe	Asp	Asp	Gly
			275					280					285			
	Ala	Gly	Gly	Asp	Asn	Glu	Val	Gln	Arg	Thr	Met	Leu	Glu	Leu	Ile	Asn
			290				295					300				
	Gln	Leu	Asp	Gly	Phe	Asp	Pro	Arg	Gly	Asn	Ile	Lys	Val	Leu	Met	Ala
305					310					315						320
	Thr	Asn	Arg	Pro	Asp	Thr	Leu	Asp	Pro	Ala	Leu	Met	Arg	Pro	Gly	Arg
				325					330						335	
	Leu	Asp	Arg	Lys	Ile	Glu	Phe	Ser	Leu	Pro	Asp	Leu	Glu	Gly	Arg	Thr
			340						345					350		
	His	Ile	Phe	Lys	Ile	His	Ala	Arg	Ser	Met	Ser	Val	Glu	Arg	Asp	Ile
			355				360						365			
	Arg	Phe	Glu	Leu	Leu	Ala	Arg	Leu	Cys	Pro	Asn	Ser	Thr	Gly	Ala	Glu
			370			375					380					
	Ile	Arg	Ser	Val	Cys	Thr	Glu	Ala	Gly	Met	Phe	Ala	Ile	Arg	Ala	Arg
385					390					395						400
	Arg	Lys	Ile	Ala	Thr	Glu	Lys	Asp	Phe	Leu	Glu	Ala	Val	Asn	Lys	Val
				405					410						415	
	Ile	Lys	Ser	Tyr	Ala	Lys	Phe	Ser	Ala	Thr	Pro	Arg	Tyr	Met	Thr	Tyr
			420					425						430		
	Asn															

&lt;210&gt; 169

&lt;211&gt; 529

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 169

Met	Ser	Thr	Asn	Glu	Asn	Ala	Asn	Thr	Pro	Ala	Ala	Arg	Leu	His	Arg
1			5					10					15		
Phe	Lys	Asn	Lys	Gly	Lys	Asp	Ser	Thr	Glu	Met	Arg	Arg	Arg	Arg	Ile
		20						25					30		
Glu	Val	Asn	Val	Glu	Leu	Arg	Lys	Ala	Lys	Lys	Asp	Asp	Gln	Met	Leu
		35					40					45			
Lys	Arg	Arg	Asn	Val	Ser	Ser	Phe	Pro	Asp	Asp	Ala	Thr	Ser	Pro	Leu
		50				55					60				
Gln	Glu	Asn	Arg	Asn	Asn	Gln	Gly	Thr	Val	Asn	Trp	Ser	Val	Asp	Asp
65				70					75						80
Ile	Val	Lys	Gly	Ile	Asn	Ser	Ser	Asn	Val	Glu	Asn	Gln	Leu	Gln	Ala
			85					90					95		
Thr	Gln	Ala	Ala	Arg	Lys	Leu	Leu	Ser	Arg	Glu	Lys	Gln	Pro	Pro	Ile
		100						105					110		
Asp	Asn	Ile	Ile	Arg	Ala	Gly	Leu	Ile	Pro	Lys	Phe	Val	Ser	Phe	Leu
		115					120					125			
Gly	Arg	Thr	Asp	Cys	Ser	Pro	Ile	Gln	Phe	Glu	Ser	Ala	Trp	Ala	Leu
		130				135					140				
Thr	Asn	Ile	Ala	Ser	Gly	Thr	Ser	Glu	Gln	Thr	Lys	Ala	Val	Val	Asp
145				150					155						160
Gly	Gly	Ala	Ile	Pro	Ala	Phe	Ile	Ser	Leu	Leu	Ala	Ser	Pro	His	Ala
			165					170						175	
His	Ile	Ser	Glu	Gln	Ala	Val	Trp	Ala	Leu	Gly	Asn	Ile	Ala	Gly	Asp
		180						185					190		
Gly	Ser	Val	Phe	Arg	Asp	Leu	Val	Ile	Lys	Tyr	Gly	Ala	Val	Asp	Pro
		195					200					205			
Leu	Leu	Ala	Leu	Leu	Ala	Val	Pro	Asp	Met	Ser	Ser	Leu	Ala	Cys	Gly
		210				215					220				
Tyr	Leu	Arg	Asn	Leu	Thr	Trp	Thr	Leu	Ser	Asn	Leu	Cys	Arg	Asn	Lys
225					230					235					240
Asn	Pro	Ala	Pro	Pro	Ile	Asp	Ala	Val	Glu	Gln	Ile	Leu	Pro	Thr	Leu
			245					250						255	
Val	Arg	Leu	Leu	His	His	Asp	Asp	Pro	Glu	Val	Leu	Ala	Asp	Thr	Cys
			260					265					270		
Trp	Ala	Ile	Ser	Tyr	Leu	Thr	Asp	Gly	Pro	Asn	Glu	Arg	Ile	Gly	Met
		275					280					285			

Val Val Lys Thr Gly Val Val Pro Gln Leu Val Lys Leu Leu Gly Ala  
 290 295 300  
 Ser Glu Leu Pro Ile Val Thr Pro Ala Leu Arg Ala Ile Gly Asn Ile  
 305 310 315 320  
 Val Thr Gly Thr Asp Glu Gln Thr Gln Val Val Ile Asp Ala Gly Ala  
 325 330 335  
 Leu Ala Val Phe Pro Ser Leu Leu Thr Asn Pro Lys Thr Asn Ile Gln  
 340 345 350  
 Lys Glu Ala Thr Trp Thr Met Ser Asn Ile Thr Ala Gly Arg Gln Asp  
 355 360 365  
 Gln Ile Gln Gln Val Val Asn His Gly Leu Val Pro Phe Leu Val Ser  
 370 375 380  
 Val Leu Ser Lys Ala Asp Phe Lys Thr Gln Lys Glu Ala Val Trp Ala  
 385 390 395 400  
 Val Thr Asn Tyr Thr Ser Gly Gly Thr Val Glu Gln Ile Val Tyr Leu  
 405 410 415  
 Val His Cys Gly Ile Ile Glu Pro Leu Met Asn Leu Leu Thr Ala Lys  
 420 425 430  
 Asp Thr Lys Ile Ile Leu Val Ile Leu Asp Ala Ile Ser Asn Ile Phe  
 435 440 445  
 Gln Ala Ala Glu Lys Leu Gly Glu Thr Glu Lys Leu Ser Ile Met Ile  
 450 455 460  
 Glu Glu Cys Gly Gly Leu Asp Lys Ile Glu Ala Leu Gln Asn His Glu  
 465 470 475 480  
 Asn Glu Ser Val Tyr Lys Ala Ser Leu Ser Leu Ile Glu Lys Tyr Phe  
 485 490 495  
 Ser Val Glu Glu Glu Glu Asp Gln Asn Val Val Pro Glu Thr Thr Ser  
 500 505 510  
 Glu Gly Tyr Thr Phe Gln Val Gln Asp Gly Ala Pro Gly Thr Phe Asn  
 515 520 525  
 Phe

<210> 170  
 <211> 971  
 <212> PRT  
 <213> Homo sapiens  
 <400> 170

Met Glu Leu Ser Asp Ala Asn Leu Gln Thr Leu Thr Glu Tyr Leu Lys  
 1 5 10 15  
 Lys Thr Leu Asp Pro Asp Pro Ala Ile Arg Arg Pro Ala Glu Lys Phe  
 20 25 30  
 Leu Glu Ser Val Glu Gly Asn Gln Asn Tyr Pro Leu Leu Leu Leu Thr  
 35 40 45  
 Leu Leu Glu Lys Ser Gln Asp Asn Val Ile Lys Val Cys Ala Ser Val  
 50 55 60  
 Thr Phe Lys Asn Tyr Ile Lys Arg Asn Trp Arg Ile Val Glu Asp Glu  
 65 70 75 80  
 Pro Asn Lys Ile Cys Glu Ala Asp Arg Val Ala Ile Lys Ala Asn Ile  
 85 90 95  
 Val His Leu Met Leu Ser Ser Pro Glu Gln Ile Gln Lys Gln Leu Ser  
 100 105 110  
 Asp Ala Ile Ser Ile Ile Gly Arg Glu Asp Phe Pro Gln Lys Trp Pro  
 115 120 125  
 Asp Leu Leu Thr Glu Met Val Asn Arg Phe Gln Ser Gly Asp Phe His  
 130 135 140  
 Val Ile Asn Gly Val Leu Arg Thr Ala His Ser Leu Phe Lys Arg Tyr  
 145 150 155 160  
 Arg His Glu Phe Lys Ser Asn Glu Leu Trp Thr Glu Ile Lys Leu Val  
 165 170 175  
 Leu Asp Ala Phe Ala Leu Pro Leu Thr Asn Leu Phe Lys Ala Thr Ile  
 180 185 190  
 Glu Leu Cys Ser Thr His Ala Asn Asp Ala Ser Ala Leu Arg Ile Leu  
 195 200 205  
 Phe Ser Ser Leu Ile Leu Ile Ser Lys Leu Phe Tyr Ser Leu Asn Phe  
 210 215 220  
 Gln Asp Leu Pro Glu Phe Phe Glu Asp Asn Met Glu Thr Trp Met Asn  
 225 230 235 240  
 Asn Phe His Thr Leu Leu Thr Leu Asp Asn Lys Leu Leu Gln Thr Asp

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<210> 171
<211> 184
<212> PRT
<213> Homo sapiens
<400> 171
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<210> 172
<211> 514
<212> PRT
<213> Homo sapiens
<400> 172
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- 195 -

85 90 95  
 Pro Ser Asn Pro Ser Ser His Glu Val Val Ala Trp Ile Arg Arg Ile  
 100 105 110  
 Leu Arg Val Glu Lys Thr Gly His Ser Gly Thr Leu Asp Pro Lys Val  
 115 120 125  
 Thr Gly Cys Leu Ile Val Cys Ile Glu Arg Ala Thr Arg Leu Val Lys  
 130 135 140  
 Ser Gln Gln Ser Ala Gly Lys Glu Tyr Val Gly Ile Val Arg Leu His  
 145 150 155 160  
 Asn Ala Ile Glu Gly Thr Gln Leu Ser Arg Ala Leu Glu Thr Leu  
 165 170 175  
 Thr Gly Ala Leu Phe Gln Arg Pro Pro Leu Ile Ala Ala Val Lys Arg  
 180 185 190  
 Gln Leu Arg Val Arg Thr Ile Tyr Glu Ser Lys Met Ile Glu Tyr Asp  
 195 200 205  
 Pro Glu Arg Arg Leu Gly Ile Phe Trp Val Ser Cys Glu Ala Gly Thr  
 210 215 220  
 Tyr Ile Arg Thr Leu Cys Val His Leu Gly Leu Leu Leu Gly Val Gly  
 225 230 235 240  
 Gly Gln Met Gln Glu Arg Arg Val Arg Ser Gly Val Met Ser Glu  
 245 250 255  
 Lys Asp His Met Val Thr Met His Asp Val Leu Asp Ala Gln Trp Leu  
 260 265 270  
 Tyr Asp Asn His Lys Asp Glu Ser Tyr Leu Arg Arg Val Val Tyr Pro  
 275 280 285  
 Leu Glu Lys Leu Leu Thr Ser His Lys Arg Leu Val Met Lys Asp Ser  
 290 295 300  
 Ala Val Asn Ala Ile Cys Tyr Gly Ala Lys Ile Met Leu Pro Gly Val  
 305 310 315 320  
 Leu Arg Tyr Glu Asp Gly Ile Glu Val Asn Gln Glu Ile Val Val Ile  
 325 330 335  
 Thr Thr Lys Gly Glu Ala Ile Cys Met Ala Ile Ala Leu Met Thr Thr  
 340 345 350  
 Ala Val Ile Ser Thr Cys Asp His Gly Ile Val Ala Lys Ile Lys Arg  
 355 360 365  
 Val Ile Met Glu Arg Asp Thr Tyr Pro Arg Lys Trp Gly Leu Gly Pro  
 370 375 380  
 Lys Ala Ser Gln Lys Lys Leu Met Ile Lys Gln Gly Leu Leu Asp Lys  
 385 390 395 400  
 His Gly Lys Pro Thr Asp Ser Thr Pro Ala Thr Trp Lys Gln Glu Tyr  
 405 410 415  
 Val Asp Tyr Ser Glu Ser Ala Lys Lys Glu Val Val Ala Glu Val Val  
 420 425 430  
 Lys Ala Pro Gln Val Val Ala Glu Ala Ala Lys Thr Ala Lys Arg Lys  
 435 440 445  
 Arg Glu Ser Glu Ser Glu Ser Asp Glu Thr Pro Pro Ala Ala Pro Gln  
 450 455 460  
 Leu Ile Lys Lys Glu Lys Lys Ser Lys Lys Asp Lys Lys Ala Lys  
 465 470 475 480  
 Ala Gly Leu Glu Ser Gly Ala Glu Pro Gly Asp Gly Asp Ser Asp Thr  
 485 490 495  
 Thr Lys Lys Lys Lys Lys Lys Lys Ala Lys Glu Val Glu Leu Val  
 500 505 510  
 Ser Glu

&lt;210&gt; 173

&lt;211&gt; 258

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

Met Leu Pro Leu Cys Leu Val Ala Ala Leu Leu Leu Ala Ala Gly Pro  
 1 5 10 15  
 Gly Pro Ser Leu Gly Asp Glu Ala Ile His Cys Pro Pro Cys Ser Glu  
 20 25 30  
 Glu Lys Leu Ala Arg Cys Arg Pro Pro Val Gly Cys Glu Glu Leu Val  
 35 40 45  
 Arg Glu Ala Gly Cys Gly Cys Cys Ala Thr Cys Ala Leu Gly Leu Gly  
 50 55 60

Met Pro Cys Gly Val Tyr Thr Pro Arg Cys Gly Ser Gly Leu Arg Cys  
 65 70 75 80  
 Tyr Pro Pro Arg Gly Val Glu Lys Pro Leu His Thr Leu Met His Gly  
 85 90 95  
 Gln Gly Val Cys Met Glu Leu Ala Glu Ile Glu Ala Ile Gln Glu Ser  
 100 105 110  
 Leu Gln Pro Ser Asp Lys Asp Glu Gly Asp His Pro Asn Asn Ser Phe  
 115 120 125  
 Ser Pro Cys Ser Ala His Asp Arg Arg Cys Leu Gln Lys His Phe Ala  
 130 135 140  
 Lys Ile Arg Asp Arg Ser Thr Ser Gly Gly Lys Met Lys Val Asn Gly  
 145 150 155 160  
 Ala Pro Arg Glu Asp Ala Arg Pro Val Pro Gln Gly Ser Cys Gln Ser  
 165 170 175  
 Glu Leu His Arg Ala Leu Glu Arg Leu Ala Ala Ser Gln Ser Arg Thr  
 180 185 190  
 His Glu Asp Leu Tyr Phe Ile Pro Ile Pro Asn Cys Asp Arg Asn Gly  
 195 200 205  
 Asn Phe His Pro Lys Gln Cys His Pro Ala Leu Asp Gly Gln Arg Gly  
 210 215 220  
 Lys Cys Trp Cys Val Asp Arg Lys Thr Gly Val Lys Leu Pro Gly Gly  
 225 230 235 240  
 Leu Glu Pro Lys Gly Glu Leu Asp Cys His Gln Leu Ala Asp Ser Phe  
 245 250 255  
 Arg Glu

<210> 174  
 <211> 1233  
 <212> PRT  
 <213> Homo sapiens  
 <400> 174

Met Gly Phe Leu Lys Leu Ile Glu Ile Glu Asn Phe Lys Ser Tyr Lys  
 1 5 10 15  
 Gly Arg Gln Ile Ile Gly Pro Phe Gln Arg Phe Thr Ala Ile Ile Gly  
 20 25 30  
 Pro Asn Gly Ser Gly Lys Ser Asn Leu Met Asp Ala Ile Ser Phe Val  
 35 40 45  
 Leu Gly Glu Lys Thr Ser Asn Leu Arg Val Lys Thr Leu Arg Asp Leu  
 50 55 60  
 Ile His Gly Ala Pro Val Gly Lys Pro Ala Ala Asn Arg Ala Phe Val  
 65 70 75 80  
 Ser Met Val Tyr Ser Glu Glu Gly Ala Glu Asp Arg Thr Phe Ala Arg  
 85 90 95  
 Val Ile Val Gly Gly Ser Ser Glu Tyr Lys Ile Asn Asn Lys Val Val  
 100 105 110  
 Gln Leu His Glu Tyr Ser Glu Glu Leu Glu Lys Leu Gly Ile Leu Ile  
 115 120 125  
 Lys Ala Arg Asn Phe Leu Val Phe Gln Gly Ala Val Glu Ser Ile Ala  
 130 135 140  
 Met Lys Asn Pro Lys Glu Arg Thr Ala Leu Phe Glu Glu Ile Ser Arg  
 145 150 155 160  
 Ser Gly Glu Leu Ala Gln Glu Tyr Asp Lys Arg Lys Lys Glu Met Val  
 165 170 175  
 Lys Ala Glu Glu Asp Thr Gln Phe Asn Tyr His Arg Lys Lys Asn Ile  
 180 185 190  
 Ala Ala Glu Arg Lys Glu Ala Lys Gln Glu Lys Glu Glu Ala Asp Arg  
 195 200 205  
 Tyr Gln Arg Leu Lys Asp Glu Val Val Arg Ala Gln Val Gln Leu Gln  
 210 215 220  
 Leu Phe Lys Leu Tyr His Asn Glu Val Glu Ile Glu Lys Leu Asn Lys  
 225 230 235 240  
 Glu Leu Ala Ser Lys Asn Lys Glu Ile Glu Lys Asp Lys Lys Arg Met  
 245 250 255  
 Asp Lys Val Glu Asp Glu Leu Lys Glu Lys Lys Lys Glu Leu Gly Lys  
 260 265 270  
 Met Met Arg Glu Gln Gln Gln Ile Glu Lys Glu Ile Lys Glu Lys Asp  
 275 280 285  
 Ser Glu Leu Asn Gln Lys Arg Pro Gln Tyr Ile Lys Ala Lys Glu Asn



290	295	300
Thr Ser His Lys Ile	Lys Lys Leu Glu Ala	Ala Lys Lys Ser Leu Gln
305	310	315
Asn Ala Gln Lys His Tyr	Lys Lys Arg Lys Gly	Asp Met Asp Glu Leu
325	330	335
Glu Lys Glu Met Leu Ser Val	Glu Lys Ala Arg Gln	Glu Phe Glu Glu
340	345	350
Arg Met Glu Glu Glu Ser Gln	Ser Gln Gly Arg Asp	Leu Thr Leu Glu
355	360	365
Glu Asn Gln Val Lys Lys Tyr	His Arg Leu Lys Glu	Glu Ala Ser Lys
370	375	380
Arg Ala Ala Thr Leu Ala Gln	Glu Leu Glu Lys Phe	Asn Arg Asp Gln
385	390	395
Lys Ala Asp Gln Asp Arg	Leu Asp Leu Glu Glu	Arg Lys Lys Val Glu
405	410	415
Thr Glu Ala Lys Ile Lys	Gln Lys Leu Arg Glu	Ile Glu Glu Asn Gln
420	425	430
Lys Arg Ile Glu Lys Leu Glu	Glu Tyr Ile Thr Thr	Ser Lys Gln Ser
435	440	445
Leu Glu Glu Gln Lys Lys Leu	Glu Gly Glu Leu Thr	Glu Glu Val Glu
450	455	460
Met Ala Lys Arg Arg Ile Asp	Glu Ile Asn Lys Glu	Leu Asn Gln Val
465	470	475
Met Glu Gln Leu Gly Asp	Ala Arg Ile Asp	Arg Gln Glu Ser Ser Arg
485	490	495
Gln Gln Arg Lys Ala Glu Ile	Met Glu Ser Ile Lys	Arg Leu Tyr Pro
500	505	510
Gly Ser Val Tyr Gly Arg	Leu Ile Asp Leu Cys	Gln Pro Thr Gln Lys
515	520	525
Lys Tyr Gln Ile Ala Val Thr	Lys Val Leu Gly Lys	Asn Met Asp Ala
530	535	540
Ile Ile Val Asp Ser Glu Lys	Thr Gly Arg Asp Cys	Ile Gln Tyr Ile
545	550	555
Lys Glu Gln Arg Gly Glu Pro	Glu Thr Phe Leu Pro	Leu Asp Tyr Leu
565	570	575
Glu Val Lys Pro Thr Asp	Glu Lys Leu Arg Glu	Leu Lys Gly Ala Lys
580	585	590
Leu Val Ile Asp Val Ile Arg	Tyr Glu Pro Pro His	Ile Lys Lys Ala
595	600	605
Leu Gln Tyr Ala Cys Gly Asn	Ala Leu Val Cys Asp	Asn Val Glu Asp
610	615	620
Ala Arg Arg Ile Ala Phe Gly	Gly His Gln Arg His	Lys Thr Val Ala
625	630	635
Leu Asp Gly Thr Leu Phe Gln	Lys Ser Gly Val Ile	Ser Gly Gly Ala
645	650	655
Ser Asp Leu Lys Ala Lys Ala	Arg Arg Trp Asp Glu	Lys Ala Val Asp
660	665	670
Lys Leu Lys Glu Lys Lys Glu	Arg Leu Thr Glu Glu	Leu Lys Glu Gln
675	680	685
Met Lys Ala Lys Arg Lys Glu	Ala Glu Leu Arg Gln	Val Gln Ser Gln
690	695	700
Ala His Gly Leu Gln Met Arg	Leu Lys Tyr Ser Gln	Ser Asp Leu Glu
705	710	715
Gln Thr Lys Thr Arg His Leu	Ala Leu Asn Leu Gln	Glu Lys Ser Lys
725	730	735
Leu Glu Ser Glu Leu Ala Asn	Phe Gly Pro Arg Ile	Asn Asp Ile Lys
740	745	750
Arg Ile Ile Gln Ser Arg Glu	Arg Glu Met Lys Asp	Leu Lys Glu Lys
755	760	765
Met Asn Gln Val Glu Asp Glu	Val Phe Glu Glu Phe	Cys Arg Glu Ile
770	775	780
Gly Val Arg Asn Ile Arg Glu	Phe Glu Glu Lys Val	Lys Arg Gln
785	790	795
Asn Glu Ile Ala Lys Arg Leu	Glu Phe Glu Asn Gln	Lys Thr Arg
805	810	815
Leu Gly Ile Gln Leu Asp Phe	Glu Lys Asn Gln Leu	Lys Glu Asp Gln
820	825	830
Asp Lys Val His Met Trp Glu	Gln Thr Val Lys Lys	Asp Glu Asn Glu
835	840	845

Ile Glu Lys Leu Lys Lys Glu Glu Gln Arg His Met Lys Ile Ile Asp  
 850 855 860  
 Glu Thr Met Ala Gln Leu Gln Asp Leu Lys Asn Gln His Leu Ala Lys  
 865 870 875 880  
 Lys Ser Glu Val Asn Asp Lys Asn His Glu Met Glu Glu Ile Arg Lys  
 885 890 895  
 Lys Leu Gly Gly Ala Asn Lys Glu Met Thr His Leu Gln Lys Glu Val  
 900 905 910  
 Thr Ala Ile Glu Thr Lys Leu Glu Gln Lys Arg Ser Asp Arg His Asn  
 915 920 925  
 Leu Leu Gln Ala Cys Lys Met Gln Asp Ile Lys Leu Pro Leu Ser Lys  
 930 935 940  
 Gly Thr Met Asp Asp Ile Ser Gln Glu Glu Gly Ser Ser Gln Gly Glu  
 945 950 955 960  
 Asp Ser Val Ser Gly Ser Gln Arg Ile Ser Ser Ile Tyr Ala Arg Glu  
 965 970 975  
 Ala Leu Ile Glu Ile Asp Tyr Gly Asp Leu Cys Glu Asp Leu Lys Asp  
 980 985 990  
 Ala Gln Ala Glu Glu Glu Ile Lys Gln Glu Met Asn Thr Leu Gln Gln  
 995 1000 1005  
 Lys Leu Asn Glu Gln Gln Ser Val Leu Gln Arg Ile Ala Ala Pro  
 1010 1015 1020  
 Asn Met Lys Ala Met Glu Lys Leu Glu Ser Val Arg Asp Lys Phe  
 1025 1030 1035  
 Gln Glu Thr Ser Asp Glu Phe Glu Ala Ala Arg Lys Arg Ala Lys  
 1040 1045 1050  
 Lys Ala Lys Gln Ala Phe Glu Gln Ile Lys Lys Glu Arg Phe Asp  
 1055 1060 1065  
 Arg Phe Asn Ala Cys Phe Glu Ser Val Ala Thr Asn Ile Asp Glu  
 1070 1075 1080  
 Ile Tyr Lys Ala Leu Ser Arg Asn Ser Ser Ala Gln Ala Phe Leu  
 1085 1090 1095  
 Gly Pro Glu Asn Pro Glu Glu Pro Tyr Leu Asp Gly Ile Asn Tyr  
 1100 1105 1110  
 Asn Cys Val Ala Pro Gly Lys Arg Phe Arg Pro Met Asp Asn Leu  
 1115 1120 1125  
 Ser Gly Gly Glu Lys Thr Val Ala Ala Leu Ala Leu Leu Phe Ala  
 1130 1135 1140  
 Ile His Ser Tyr Lys Pro Ala Pro Phe Phe Val Leu Asp Glu Ile  
 1145 1150 1155  
 Asp Ala Ala Leu Asp Asn Thr Asn Ile Gly Lys Val Ala Asn Tyr  
 1160 1165 1170  
 Ile Lys Glu Gln Ser Thr Cys Asn Phe Gln Ala Ile Val Ile Ser  
 1175 1180 1185  
 Leu Lys Glu Glu Phe Tyr Thr Lys Ala Glu Ser Leu Ile Gly Val  
 1190 1195 1200  
 Tyr Pro Glu Gln Gly Asp Cys Val Ile Ser Lys Val Leu Thr Phe  
 1205 1210 1215  
 Asp Leu Thr Lys Tyr Pro Asp Ala Asn Pro Asn Pro Asn Glu Gln  
 1220 1225 1230

&lt;210&gt; 175

&lt;211&gt; 501

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

Met Asn Arg Ser Arg Gln Val Thr Cys Val Ala Trp Val Arg Cys Gly  
 1 5 10 15  
 Val Ala Lys Glu Thr Pro Asp Lys Val Glu Leu Ser Lys Glu Glu Val  
 20 25 30  
 Lys Arg Leu Ile Ala Glu Ala Lys Glu Lys Leu Gln Glu Gly Gly  
 35 40 45  
 Gly Ser Asp Glu Glu Glu Thr Gly Ser Pro Ser Glu Asp Gly Met Gln  
 50 55 60  
 Ser Ala Arg Thr Gln Ala Arg Pro Arg Glu Pro Leu Glu Asp Gly Asp  
 65 70 75 80  
 Pro Glu Asp Asp Arg Thr Leu Asp Asp Asp Glu Leu Ala Glu Tyr Asp  
 85 90 95  
 Leu Asp Lys Tyr Asp Glu Glu Gly Asp Pro Asp Ala Glu Thr Leu Gly

100 105 110  
 Glu Ser Leu Leu Gly Leu Thr Val Tyr Gly Ser Asn Asp Gln Asp Pro  
 115 120 125  
 Tyr Val Thr Leu Lys Asp Thr Glu Gln Tyr Glu Arg Glu Asp Phe Leu  
 130 135 140  
 Ile Lys Pro Ser Asp Asn Leu Ile Val Cys Gly Arg Ala Glu Gln Asp  
 145 150 155  
 Gln Cys Asn Leu Glu Val His Val Tyr Asn Gln Glu Glu Asp Ser Phe  
 165 170 175  
 Tyr Val His His Asp Ile Leu Leu Ser Ala Tyr Pro Leu Ser Val Glu  
 180 185 190  
 Trp Leu Asn Phe Asp Pro Ser Pro Asp Asp Ser Thr Gly Asn Tyr Ile  
 195 200 205  
 Ala Val Gly Asn Met Thr Pro Val Ile Glu Val Trp Asp Leu Asp Ile  
 210 215 220  
 Val Asp Ser Leu Glu Pro Val Phe Thr Leu Gly Ser Lys Leu Ser Lys  
 225 230 235 240  
 Lys Lys Lys Lys Lys Gly Lys Lys Ser Ser Ser Ala Glu Gly His Thr  
 245 250 255  
 Asp Ala Val Leu Asp Leu Ser Trp Asn Lys Leu Ile Arg Asn Val Leu  
 260 265 270  
 Ala Ser Ala Ser Ala Asp Asn Thr Val Ile Leu Trp Asp Met Ser Leu  
 275 280 285  
 Gly Lys Pro Ala Ala Ser Leu Ala Val His Thr Asp Lys Val Gln Thr  
 290 295 300  
 Leu Gln Phe His Pro Phe Glu Ala Gln Thr Leu Ile Ser Gly Ser Tyr  
 305 310 315 320  
 Asp Lys Ser Val Ala Leu Tyr Asp Cys Arg Ser Pro Asp Glu Ser His  
 325 330 335  
 Arg Met Trp Arg Phe Ser Gly Gln Ile Glu Arg Val Thr Trp Asn His  
 340 345 350  
 Phe Ser Pro Cys His Phe Leu Ala Ser Thr Asp Asp Gly Phe Val Tyr  
 355 360 365  
 Asn Leu Asp Ala Arg Ser Asp Lys Pro Ile Phe Thr Leu Asn Ala His  
 370 375 380  
 Asn Asp Glu Ile Ser Gly Leu Asp Leu Ser Ser Gln Ile Lys Gly Cys  
 385 390 395 400  
 Leu Val Thr Ala Ser Ala Asp Lys Tyr Val Lys Ile Trp Asp Ile Leu  
 405 410 415  
 Gly Asp Arg Pro Ser Leu Val His Ser Arg Asp Met Lys Met Gly Val  
 420 425 430  
 Leu Phe Cys Ser Ser Cys Cys Pro Asp Leu Pro Phe Ile Tyr Ala Phe  
 435 440 445  
 Gly Gly Gln Lys Glu Gly Leu Arg Val Trp Asp Ile Ser Thr Val Ser  
 450 455 460  
 Ser Val Asn Glu Ala Phe Gly Arg Arg Glu Arg Leu Val Leu Gly Ser  
 465 470 475 480  
 Ala Arg Asn Ser Ser Ile Ser Gly Pro Phe Gly Ser Arg Ser Ser Asp  
 485 490 495  
 Thr Pro Met Glu Ser  
 500

<210> 176  
 <211> 488  
 <212> PRT  
 <213> Homo sapiens  
 <400> 176

Met Ala Tyr Ser Gln Gly Gly Gly Lys Lys Lys Val Cys Tyr Tyr Tyr  
 1 5 10 15  
 Asp Gly Asp Ile Gly Asn Tyr Tyr Tyr Gly Gln Gly His Pro Met Lys  
 20 25 30  
 Pro His Arg Ile Arg Met Thr His Asn Leu Leu Leu Asn Tyr Gly Leu  
 35 40 45  
 Tyr Arg Lys Met Glu Ile Tyr Arg Pro His Lys Ala Thr Ala Glu Glu  
 50 55 60  
 Met Thr Lys Tyr His Ser Asp Glu Tyr Ile Lys Phe Leu Arg Ser Ile  
 65 70 75 80  
 Arg Pro Asp Asn Met Ser Glu Tyr Ser Lys Gln Met His Ile Phe Asn  
 85 90 95

Val Gly Glu Asp Cys Pro Ala Phe Asp Gly Leu Phe Glu Phe Cys Gln  
 100 105 110  
 Leu Ser Thr Gly Gly Ser Val Ala Gly Ala Val Lys Leu Asn Arg Gln  
 115 120 125  
 Gln Thr Asp Met Ala Val Asn Trp Ala Gly Gly Leu His His Ala Lys  
 130 135 140  
 Lys Tyr Glu Ala Ser Gly Phe Cys Tyr Val Asn Asp Ile Val Leu Ala  
 145 150 155 160  
 Ile Leu Glu Leu Leu Lys Tyr His Gln Arg Val Leu Tyr Ile Asp Ile  
 165 170 175  
 Asp Ile His His Gly Asp Gly Val Glu Glu Ala Phe Tyr Thr Thr Asp  
 180 185 190  
 Arg Val Met Thr Val Ser Phe His Lys Tyr Gly Glu Tyr Phe Pro Gly  
 195 200 205  
 Thr Gly Asp Leu Arg Asp Ile Gly Ala Gly Lys Gly Lys Tyr Tyr Ala  
 210 215 220  
 Val Asn Phe Pro Met Cys Asp Gly Ile Asp Asp Glu Ser Tyr Gly Gln  
 225 230 235 240  
 Ile Phe Lys Pro Ile Ile Ser Lys Val Met Glu Met Tyr Gln Pro Ser  
 245 250 255  
 Ala Val Val Leu Gln Cys Gly Ala Asp Ser Leu Ser Gly Asp Arg Leu  
 260 265 270  
 Gly Cys Phe Asn Leu Thr Val Lys Gly His Ala Lys Cys Val Glu Val  
 275 280 285  
 Val Lys Thr Phe Asn Leu Pro Leu Leu Met Leu Gly Gly Gly Tyr  
 290 295 300  
 Thr Ile Arg Asn Val Ala Arg Cys Trp Thr Tyr Glu Thr Ala Val Ala  
 305 310 315 320  
 Leu Asp Cys Glu Ile Pro Asn Glu Leu Pro Tyr Asn Asp Tyr Phe Glu  
 325 330 335  
 Tyr Phe Gly Pro Asp Phe Lys Leu His Ile Ser Pro Ser Asn Met Thr  
 340 345 350  
 Asn Gln Asn Thr Pro Glu Tyr Met Glu Lys Ile Lys Gln Arg Leu Phe  
 355 360 365  
 Glu Asn Leu Arg Met Leu Pro His Ala Pro Gly Val Gln Met Gln Ala  
 370 375 380  
 Ile Pro Glu Asp Ala Val His Glu Asp Ser Gly Asp Glu Asp Gly Glu  
 385 390 395 400  
 Asp Pro Asp Lys Arg Ile Ser Ile Arg Ala Ser Asp Lys Arg Ile Ala  
 405 410 415  
 Cys Asp Glu Glu Phe Ser Asp Ser Glu Asp Glu Gly Glu Gly Arg  
 420 425 430  
 Arg Asn Val Ala Asp His Lys Lys Gly Ala Lys Lys Ala Arg Ile Glu  
 435 440 445  
 Glu Asp Lys Lys Glu Thr Glu Asp Lys Lys Thr Asp Val Lys Glu Glu  
 450 455 460  
 Asp Lys Ser Lys Asp Asn Ser Gly Glu Lys Thr Asp Thr Lys Gly Thr  
 465 470 475 480  
 Lys Ser Glu Gln Leu Ser Asn Pro  
 485

&lt;210&gt; 177

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

Met Gly Asn Thr Ser Ser Glu Arg Ala Ala Leu Glu Arg His Gly Gly  
 1 5 10 15  
 His Lys Thr Pro Arg Arg Asp Ser Ser Gly Gly Thr Lys Asp Gly Asp  
 20 25 30  
 Arg Pro Lys Ile Leu Met Asp Ser Pro Glu Asp Ala Asp Leu Phe His  
 35 40 45  
 Ser Glu Glu Ile Lys Ala Pro Glu Lys Glu Glu Phe Leu Ala Trp Gln  
 50 55 60  
 His Asp Leu Glu Val Asn Asp Lys Ala Pro Ala Gln Ala Arg Pro Thr  
 65 70 75 80  
 Val Phe Arg Trp Thr Gly Gly Gly Lys Glu Val Tyr Leu Ser Gly Ser  
 85 90 95  
 Phe Asn Asn Trp Ser Lys Leu Pro Leu Thr Arg Ser His Asn Asn Phe

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      100      105      110
Val Ala Ile Leu Asp Leu Pro Glu Gly Glu His Gln Tyr Lys Phe Phe
      115      120      125
Val Asp Gly Gln Trp Thr His Asp Pro Ser Glu Pro Ile Val Thr Ser
      130      135      140
Gln Leu Gly Thr Val Asn Asn Ile Ile Gln Val Lys Lys Thr Asp Phe
      145      150      155
Glu Val Phe Asp Ala Leu Met Val Asp Ser Gln Lys Cys Ser Asp Val
      165      170      175
Ser Glu Leu Ser Ser Ser Pro Pro Gly Pro Tyr His Gln Glu Pro Tyr
      180      185      190
Val Cys Lys Pro Glu Glu Arg Phe Arg Ala Pro Pro Ile Leu Pro Pro
      195      200      205
His Leu Leu Gln Val Ile Leu Asn Lys Asp Thr Gly Ile Ser Cys Asp
      210      215      220
Pro Ala Leu Leu Pro Glu Pro Asn His Val Met Leu Asn His Leu Tyr
      225      230      235
Ala Leu Ser Ile Lys Asp Gly Val Met Val Leu Ser Ala Thr His Arg
      245      250      255
Tyr Lys Lys Lys Tyr Val Thr Thr Leu Leu Tyr Lys Pro Ile
      260      265      270

<210> 178
<211> 514
<212> PRT
<213> Homo sapiens
<400> 178
Met Ala Asp Tyr Leu Ile Ser Gly Gly Thr Ser Tyr Val Pro Asp Asp
1      5      10      15
Gly Leu Thr Ala Gln Gln Leu Phe Asn Cys Gly Asp Gly Leu Thr Tyr
      20      25      30
Asn Asp Phe Leu Ile Leu Pro Gly Tyr Ile Asp Phe Thr Ala Asp Gln
      35      40      45
Val Asp Leu Thr Ser Ala Leu Thr Lys Lys Ile Thr Leu Lys Thr Pro
      50      55      60
Leu Val Ser Ser Pro Met Asp Thr Val Thr Glu Ala Gly Met Ala Ile
      65      70      75
Ala Met Ala Leu Thr Gly Gly Ile Gly Phe Ile His His Asn Cys Thr
      85      90      95
Pro Glu Phe Gln Ala Asn Glu Val Arg Lys Val Lys Lys Tyr Glu Gln
      100      105      110
Gly Phe Ile Thr Asp Pro Val Val Leu Ser Pro Lys Asp Arg Val Arg
      115      120      125
Asp Val Phe Glu Ala Lys Ala Arg His Gly Phe Cys Gly Ile Pro Ile
      130      135      140
Thr Asp Thr Gly Arg Met Gly Ser Arg Leu Val Gly Ile Ile Ser Ser
      145      150      155
Arg Asp Ile Asp Phe Leu Lys Glu Glu Glu His Asp Cys Phe Leu Glu
      165      170      175
Glu Ile Met Thr Lys Arg Glu Asp Leu Val Val Ala Pro Arg Ser Ile
      180      185      190
Thr Leu Lys Glu Ala Asn Glu Ile Leu Gln Arg Ser Lys Lys Gly Lys
      195      200      205
Leu Pro Ile Val Asn Glu Asp Asp Glu Leu Val Ala Ile Ile Ala Arg
      210      215      220
Thr Asp Leu Lys Lys Asn Arg Asp Tyr Pro Leu Ala Ser Lys Asp Ala
      225      230      235
Lys Lys Gln Leu Leu Cys Gly Ala Ala Ile Gly Thr His Glu Asp Asp
      245      250      255
Lys Tyr Arg Leu Asp Leu Leu Ala Gln Ala Gly Val Asp Val Val
      260      265      270
Leu Asp Ser Ser Gln Gly Asn Ser Ile Phe Gln Ile Asn Met Ile Lys
      275      280      285
Tyr Ile Lys Asp Lys Tyr Pro Asn Leu Gln Val Ile Gly Gly Asn Val
      290      295      300
Val Thr Ala Ala Gln Ala Lys Asn Leu Ile Asp Ala Gly Val Asp Ala
      305      310      315
Leu Arg Val Gly Met Gly Ser Gly Ser Ile Cys Ile Thr Gln Glu Val
      325      330      335

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Leu Ala Cys Gly Arg Pro Gln Ala Thr Ala Val Tyr Lys Val Ser Glu  
 340 345 350  
 Tyr Ala Arg Arg Phe Gly Val Pro Val Ile Ala Asp Gly Gly Ile Gln  
 355 360 365  
 Asn Val Gly His Ile Ala Lys Ala Leu Ala Leu Gly Ala Ser Thr Val  
 370 375 380  
 Met Met Gly Ser Leu Leu Ala Ala Thr Thr Glu Ala Pro Gly Glu Tyr  
 385 390 395 400  
 Phe Phe Ser Asp Gly Ile Arg Leu Lys Lys Tyr Arg Gly Met Gly Ser  
 405 410 415  
 Leu Asp Ala Met Asp Lys His Leu Ser Ser Gln Asn Arg Tyr Phe Ser  
 420 425 430  
 Glu Ala Asp Lys Ile Lys Val Ala Gln Gly Val Ser Gly Ala Val Gln  
 435 440 445  
 Asp Lys Gly Ser Ile His Lys Phe Val Pro Tyr Leu Ile Ala Gly Ile  
 450 455 460  
 Gln His Ser Cys Gln Asp Ile Gly Ala Lys Ser Leu Thr Gln Val Arg  
 465 470 475 480  
 Ala Met Met Tyr Ser Gly Glu Leu Lys Phe Glu Lys Arg Thr Ser Ser  
 485 490 495  
 Ala Gln Val Glu Gly Gly Val His Ser Leu His Ser Tyr Glu Lys Arg  
 500 505 510  
 Leu Phe

<210> 179  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens  
 <400> 179

Met Ser Thr Pro Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu  
 1 5 10 15  
 Gln Glu Asp Pro Pro Ala Gly Val Ser Gly Ala Pro Ser Glu Asn Asn  
 20 25 30  
 Ile Met Val Trp Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe  
 35 40 45  
 Glu Asp Gly Thr Phe Lys Leu Thr Ile Glu Phe Thr Glu Glu Tyr Pro  
 50 55 60  
 Asn Lys Pro Pro Thr Val Arg Phe Val Ser Lys Met Phe His Pro Asn  
 65 70 75 80  
 Val Tyr Ala Asp Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp  
 85 90 95  
 Ser Pro Thr Tyr Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu  
 100 105 110  
 Leu Asp Glu Pro Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln  
 115 120 125  
 Leu Tyr Gln Glu Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile  
 130 135 140  
 Val Glu Gln Ser Trp Arg Asp Cys  
 145 150

<210> 180  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens  
 <400> 180

Met Pro Gln Asn Glu Tyr Ile Glu Leu His Arg Lys Arg Tyr Gly Tyr  
 1 5 10 15  
 Arg Leu Asp Tyr His Glu Lys Lys Arg Lys Lys Glu Ser Arg Glu Ala  
 20 25 30  
 His Glu Arg Ser Lys Lys Ala Lys Lys Met Ile Gly Leu Lys Ala Lys  
 35 40 45  
 Leu Tyr His Lys Gln Arg His Ala Glu Lys Ile Gln Met Lys Lys Thr  
 50 55 60  
 Ile Lys Met His Glu Lys Arg Asn Thr Lys Gln Lys Asn Asp Glu Lys  
 65 70 75 80  
 Thr Pro Gln Gly Ala Val Pro Ala Tyr Leu Leu Asp Arg Glu Gly Gln  
 85 90 95  
 Ser Arg Ala Lys Val Leu Ser Asn Met Ile Lys Gln Lys Arg Lys Glu

100 105 110  
 Lys Ala Gly Lys Trp Glu Val Pro Leu Pro Lys Val Arg Ala Gln Gly  
 115 120 125  
 Glu Thr Glu Val Leu Lys Val Ile Arg Thr Gly Lys Arg Lys Lys Lys  
 130 135 140  
 Ala Trp Lys Arg Met Val Thr Lys Val Cys Phe Val Gly Asp Gly Phe  
 145 150 155  
 Thr Arg Lys Pro Pro Lys Tyr Glu Arg Phe Ile Arg Pro Met Gly Leu  
 165 170 175  
 Arg Phe Lys Lys Ala His Val Thr His Pro Glu Leu Lys Ala Thr Phe  
 180 185 190  
 Cys Leu Pro Ile Leu Gly Val Lys Lys Asn Pro Ser Ser Pro Leu Tyr  
 195 200 205  
 Thr Thr Leu Gly Val Ile Thr Lys Gly Thr Val Ile Glu Val Asn Val  
 210 215 220  
 Ser Glu Leu Gly Leu Val Thr Gln Gly Gly Lys Val Ile Trp Gly Lys  
 225 230 235 240  
 Tyr Ala Gln Val Thr Asn Asn Pro Glu Asn Asp Gly Cys Ile Asn Ala  
 245 250 255  
 Val Leu Leu Val  
 260

<210> 181  
 <211> 790  
 <212> PRT  
 <213> Homo sapiens  
 <400> 181

Met Glu Ala Thr Ser Arg Glu Ala Ala Pro Ala Lys Ser Ser Ala Ser  
 1 5 10 15  
 Gly Pro Asn Ala Pro Pro Ala Leu Phe Glu Leu Cys Gly Arg Ala Val  
 20 25 30  
 Ser Ala His Met Gly Val Leu Glu Ser Gly Val Trp Ala Leu Pro Gly  
 35 40 45  
 Pro Ile Leu Gln Ser Ile Leu Pro Leu Leu Asn Ile Tyr Tyr Leu Glu  
 50 55 60  
 Arg Ile Glu Glu Thr Ala Leu Lys Lys Gly Leu Ser Thr Gln Ala Ile  
 65 70 75 80  
 Trp Arg Arg Leu Trp Asp Glu Leu Met Lys Thr Arg Pro Ser Ser Leu  
 85 90 95  
 Glu Ser Val Thr Cys Trp Arg Ala Lys Phe Met Glu Ala Phe Phe Ser  
 100 105 110  
 His Val Leu Arg Gly Thr Ile Asp Val Ser Ser Asp Arg Arg Leu Cys  
 115 120 125  
 Asp Gln Arg Phe Ser Pro Leu Leu His Ser Ser Arg His Val Arg Gln  
 130 135 140  
 Leu Thr Ile Cys Asn Met Leu Gln Gly Ala Thr Glu Leu Val Ala Glu  
 145 150 155 160  
 Pro Asn Arg Arg Val Leu Glu Thr Leu Ala Ser Ser Leu His Thr Leu  
 165 170 175  
 Lys Phe Arg His Leu Leu Phe Ser Asp Val Ala Ala Gln Gln Ser Leu  
 180 185 190  
 Arg Gln Leu Leu His Gln Leu Ile His His Gly Ala Val Ser Gln Val  
 195 200 205  
 Ser Leu Tyr Ser Trp Pro Val Pro Glu Ser Ala Leu Phe Ile Leu Ile  
 210 215 220  
 Leu Thr Met Ser Ala Gly Phe Trp Gln Pro Gly Pro Gly Gly Pro Pro  
 225 230 235 240  
 Cys Arg Leu Cys Gly Glu Ala Ser Arg Gly Arg Ala Pro Ser Arg Asp  
 245 250 255  
 Glu Gly Ser Leu Leu Gly Ser Arg Arg Pro Arg Arg Asp Ala Ala  
 260 265 270  
 Glu Arg Cys Ala Ala Ala Leu Met Ala Ser Arg Arg Lys Ser Glu Ala  
 275 280 285  
 Lys Gln Met Pro Arg Ala Ala Pro Ala Thr Arg Val Thr Arg Arg Ser  
 290 295 300  
 Thr Gln Glu Ser Leu Thr Ala Gly Gly Thr Asp Leu Lys Arg Glu Leu  
 305 310 315 320  
 His Pro Pro Ala Thr Ser His Glu Ala Pro Gly Thr Lys Arg Ser Pro  
 325 330 335



Ser Ala Pro Ala Ala Thr Ser Ser Ala Ser Ser Ser Thr Ser Ser Tyr  
 340 345 350  
 Lys Arg Ala Pro Ala Ser Ser Ala Pro Gln Pro Lys Pro Leu Lys Arg  
 355 360 365  
 Phe Lys Arg Ala Ala Gly Lys Lys Gly Ala Arg Thr Arg Gln Gly Pro  
 370 375 380  
 Gly Ala Glu Ser Glu Asp Leu Tyr Asp Phe Val Phe Ile Val Ala Gly  
 385 390 395 400  
 Glu Lys Glu Asp Gly Glu Glu Met Glu Ile Gly Glu Val Ala Cys Gly  
 405 410 415  
 Ala Leu Asp Gly Ser Asp Pro Ser Cys Leu Gly Leu Pro Ala Leu Glu  
 420 425 430  
 Ala Ser Gln Arg Phe Arg Ser Ile Ser Thr Leu Glu Leu Phe Thr Val  
 435 440 445  
 Pro Leu Ser Thr Glu Ala Ala Leu Thr Leu Cys His Leu Leu Ser Ser  
 450 455 460  
 Trp Val Ser Leu Glu Ser Leu Thr Leu Ser Tyr Asn Gly Leu Gly Ser  
 465 470 475 480  
 Asn Ile Phe Arg Leu Leu Asp Ser Leu Arg Ala Leu Ser Gly Gln Ala  
 485 490 495  
 Gly Cys Arg Leu Arg Ala Leu His Leu Ser Asp Leu Phe Ser Pro Leu  
 500 505 510  
 Pro Ile Leu Glu Leu Thr Arg Ala Ile Val Arg Ala Leu Pro Leu Leu  
 515 520 525  
 Arg Val Leu Ser Ile Arg Val Asp His Pro Ser Gln Arg Asp Asn Pro  
 530 535 540  
 Gly Val Pro Gly Asn Ala Gly Pro Pro Ser His Ile Ile Gly Asp Glu  
 545 550 555 560  
 Glu Ile Pro Glu Asn Cys Leu Glu Gln Leu Glu Met Gly Phe Pro Arg  
 565 570 575  
 Gly Ala Gln Pro Ala Pro Leu Leu Cys Ser Val Leu Lys Ala Ser Gly  
 580 585 590  
 Ser Leu Gln Gln Leu Ser Leu Asp Ser Ala Thr Phe Ala Ser Pro Gln  
 595 600 605  
 Asp Phe Gly Leu Val Leu Gln Thr Leu Lys Glu Tyr Asn Leu Ala Leu  
 610 615 620  
 Lys Arg Leu Ser Phe His Asp Met Asn Leu Ala Asp Cys Gln Ser Glu  
 625 630 635 640  
 Val Leu Phe Leu Leu Gln Asn Leu Thr Leu Gln Glu Ile Thr Phe Ser  
 645 650 655  
 Phe Cys Arg Leu Phe Glu Lys Arg Pro Ala Gln Phe Leu Pro Glu Met  
 660 665 670  
 Val Ala Ala Met Lys Gly Asn Ser Thr Leu Lys Gly Leu Arg Leu Pro  
 675 680 685  
 Gly Asn Arg Leu Gly Asn Ala Gly Leu Leu Ala Leu Ala Asp Val Phe  
 690 695 700  
 Ser Glu Asp Ser Ser Ser Ser Leu Cys Gln Leu Asp Ile Ser Ser Asn  
 705 710 715 720  
 Cys Ile Lys Pro Asp Gly Leu Leu Glu Phe Ala Lys Arg Leu Glu Arg  
 725 730 735  
 Trp Gly Arg Gly Ala Phe Gly His Leu Arg Leu Phe Gln Asn Trp Leu  
 740 745 750  
 Asp Gln Asp Ala Val Thr Ala Arg Glu Ala Ile Arg Arg Leu Arg Ala  
 755 760 765  
 Thr Cys His Val Val Ser Asp Ser Trp Asp Ser Ser Gln Ala Phe Ala  
 770 775 780  
 Asp Tyr Val Ser Thr Met  
 785 790

<210> 182  
 <211> 2058  
 <212> PRT  
 <213> Homo sapiens  
 <400> 182

Met Asp Asn Phe Phe Thr Glu Gly Thr Arg Val Trp Leu Arg Glu Asn  
 1 5 10 15  
 Gly Gln His Phe Pro Ser Thr Val Asn Ser Cys Ala Glu Gly Ile Val  
 20 25 30  
 Val Phe Arg Thr Asp Tyr Gly Gln Val Phe Thr Tyr Lys Gln Ser Thr

35 40 45  
 Ile Thr His Gln Lys Val Thr Ala Met His Pro Thr Asn Glu Glu Gly  
 50 55 60  
 Val Asp Asp Met Ala Ser Leu Thr Glu Leu His Gly Gly Ser Ile Met  
 65 70 75 80  
 Tyr Asn Leu Phe Gln Arg Tyr Lys Arg Asn Gln Ile Tyr Thr Tyr Ile  
 85 90 95  
 Gly Ser Ile Leu Ala Ser Val Asn Pro Tyr Gln Pro Ile Ala Gly Leu  
 100 105 110  
 Tyr Glu Pro Ala Thr Met Glu Gln Tyr Ser Arg Arg His Leu Gly Glu  
 115 120 125  
 Leu Pro Pro His Ile Phe Ala Ile Ala Asn Glu Cys Tyr Arg Cys Leu  
 130 135 140  
 Trp Lys Arg Tyr Asp Asn Gln Cys Ile Leu Ile Ser Gly Glu Ser Gly  
 145 150 155 160  
 Ala Gly Lys Thr Glu Ser Thr Lys Leu Ile Leu Lys Phe Leu Ser Val  
 165 170 175  
 Ile Ser Gln Gln Ser Leu Glu Leu Ser Leu Lys Glu Lys Thr Ser Cys  
 180 185 190  
 Val Glu Arg Ala Ile Leu Glu Ser Ser Pro Ile Met Glu Ala Phe Gly  
 195 200 205  
 Asn Ala Lys Thr Val Tyr Asn Asn Asn Ser Ser Arg Phe Gly Lys Phe  
 210 215 220  
 Val Gln Leu Asn Ile Cys Gln Lys Gly Asn Ile Gln Gly Gly Arg Ile  
 225 230 235 240  
 Val Asp Tyr Leu Leu Glu Lys Asn Arg Val Val Arg Gln Asn Pro Gly  
 245 250 255  
 Glu Arg Asn Tyr His Ile Phe Tyr Ala Leu Leu Ala Gly Leu Glu His  
 260 265 270  
 Glu Glu Arg Glu Glu Phe Tyr Leu Ser Thr Pro Glu Asn Tyr His Tyr  
 275 280 285  
 Leu Asn Gln Ser Gly Cys Val Glu Asp Lys Thr Ile Ser Asp Gln Glu  
 290 295 300  
 Ser Phe Arg Glu Val Ile Thr Ala Met Asp Val Met Gln Phe Ser Lys  
 305 310 315 320  
 Glu Glu Val Arg Glu Val Ser Arg Leu Leu Ala Gly Ile Leu His Leu  
 325 330 335  
 Gly Asn Ile Glu Phe Ile Thr Ala Gly Gly Ala Gln Val Ser Phe Lys  
 340 345 350  
 Thr Ala Leu Gly Arg Ser Ala Glu Leu Leu Gly Leu Asp Pro Thr Gln  
 355 360 365  
 Leu Thr Asp Ala Leu Thr Gln Arg Ser Met Phe Leu Arg Gly Glu Glu  
 370 375 380  
 Ile Leu Thr Pro Leu Asn Val Gln Gln Ala Val Asp Ser Arg Asp Ser  
 385 390 395 400  
 Leu Ala Met Ala Leu Tyr Ala Cys Cys Phe Glu Trp Val Ile Lys Lys  
 405 410 415  
 Ile Asn Ser Arg Ile Lys Gly Asn Glu Asp Phe Lys Ser Ile Gly Ile  
 420 425 430  
 Leu Asp Ile Phe Gly Phe Glu Asn Phe Glu Val Asn His Phe Glu Gln  
 435 440 445  
 Phe Asn Ile Asn Tyr Ala Asn Glu Lys Leu Gln Glu Tyr Phe Asn Lys  
 450 455 460  
 His Ile Phe Ser Leu Glu Gln Leu Glu Tyr Ser Arg Glu Gly Leu Val  
 465 470 475 480  
 Trp Glu Asp Ile Asp Trp Ile Asp Asn Gly Glu Cys Leu Asp Leu Ile  
 485 490 495  
 Glu Lys Lys Leu Gly Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe  
 500 505 510  
 Pro Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His  
 515 520 525  
 Ala Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe  
 530 535 540  
 Gly Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile  
 545 550 555 560  
 Leu Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu  
 565 570 575  
 Arg Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser  
 580 585 590

Ser Arg Asn Asn Gln Asp Thr Leu Lys Cys Gly Ser Lys His Arg Arg  
 595 600 605  
 Pro Thr Val Ser Ser Gln Phe Lys Asp Ser Leu His Ser Leu Met Ala  
 610 615 620  
 Thr Leu Ser Ser Ser Asn Pro Phe Phe Val Arg Cys Ile Lys Pro Asn  
 625 630 635 640  
 Met Gln Lys Met Pro Gly Met Leu Glu Thr Val Arg Ile Arg Lys Ala Gly  
 645 650 655  
 Leu Arg Tyr Ser Gly Met Leu Glu Thr Val Arg Ile Arg Lys Ala Gly  
 660 665 670  
 Tyr Ala Val Arg Arg Pro Phe Gln Asp Phe Tyr Lys Arg Tyr Lys Val  
 675 680 685  
 Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys Cys Thr  
 690 695 700  
 Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln Leu Gly  
 705 710 715 720  
 Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu Glu Lys  
 725 730 735  
 Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg Ala His  
 740 745 750  
 Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu Tyr Cys  
 755 760 765  
 Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg Arg Arg  
 770 775 780  
 Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln Leu Arg  
 785 790 795 800  
 Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Leu Leu Ala Glu Lys Arg  
 805 810 815  
 Glu Gln Glu Glu Lys Lys Lys Gln Glu Glu Glu Glu Lys Lys Lys Arg  
 820 825 830  
 Glu Glu Glu Glu Arg Glu Arg Glu Arg Glu Arg Arg Glu Ala Glu Leu  
 835 840 845  
 Arg Ala Gln Gln Glu Glu Glu Thr Arg Lys Gln Gln Glu Leu Glu Ala  
 850 855 860  
 Leu Gln Lys Ser Gln Lys Glu Ala Glu Leu Thr Arg Glu Leu Glu Lys  
 865 870 875 880  
 Gln Lys Glu Asn Lys Gln Val Glu Glu Ile Leu Arg Leu Glu Lys Glu  
 885 890 895  
 Ile Glu Asp Leu Gln Arg Met Lys Glu Gln Gln Glu Leu Ser Leu Thr  
 900 905 910  
 Glu Ala Ser Leu Gln Lys Leu Gln Glu Arg Arg Asp Gln Glu Leu Arg  
 915 920 925  
 Arg Leu Glu Glu Glu Ala Cys Arg Ala Ala Gln Glu Phe Leu Glu Ser  
 930 935 940  
 Leu Asn Phe Asp Glu Ile Asp Glu Cys Val Arg Asn Ile Glu Arg Ser  
 945 950 955 960  
 Leu Ser Val Gly Ser Glu Phe Ser Ser Glu Leu Ala Glu Ser Ala Cys  
 965 970 975  
 Glu Glu Lys Pro Asn Phe Asn Phe Ser Gln Pro Tyr Pro Glu Glu Glu  
 980 985 990  
 Val Asp Glu Gly Phe Glu Ala Asp Asp Ala Phe Lys Asp Ser Pro  
 995 1000 1005  
 Asn Pro Ser Glu His Gly His Ser Asp Gln Arg Thr Ser Gly Ile  
 1010 1015 1020  
 Arg Thr Ser Asp Asp Ser Ser Glu Glu Asp Pro Tyr Met Asn Asp  
 1025 1030 1035  
 Thr Val Val Pro Thr Ser Pro Ser Ala Asp Ser Thr Val Leu Leu  
 1040 1045 1050  
 Ala Pro Ser Val Gln Asp Ser Gly Ser Leu His Asn Ser Ser Ser  
 1055 1060 1065  
 Gly Glu Ser Thr Tyr Cys Met Pro Gln Asn Ala Gly Asp Leu Pro  
 1070 1075 1080  
 Ser Pro Asp Gly Asp Tyr Asp Tyr Asp Gln Asp Asp Tyr Glu Asp  
 1085 1090 1095  
 Gly Ala Ile Thr Ser Gly Ser Ser Val Thr Phe Ser Asn Ser Tyr  
 1100 1105 1110  
 Gly Ser Gln Trp Ser Pro Asp Tyr Arg Cys Ser Val Gly Thr Tyr  
 1115 1120 1125  
 Asn Ser Ser Gly Ala Tyr Arg Phe Ser Ser Glu Gly Ala Gln Ser

1130						1135					1140
Ser Phe	Glu Asp	Ser Glu	Glu	Glu	Asp Phe	Asp Ser	Arg	Phe	Asp Thr		
1145					1150						
Asp Asp	Glu Leu	Ser Tyr	Arg	Arg	Asp Ser	Val Tyr	Ser	Cys	Val		
1160					1165						
Thr Leu	Pro Tyr	Phe His	Ser	Phe	Leu Tyr	Met	Lys	Gly	Gly	Leu	
1175					1180						
Met Asn	Ser Trp	Lys Arg	Arg	Trp	Cys Val	Leu	Lys	Asp	Glu	Thr	
1190					1195						
Phe Leu	Trp Phe	Arg Ser	Lys	Gln	Glu Ala	Leu	Lys	Gln	Gly	Trp	
1205					1210						
Leu His	Lys Lys	Gly Gly	Gly	Ser	Ser Thr	Leu	Ser	Arg	Arg	Asn	
1220					1225						
Trp Lys	Lys Arg	Trp Phe	Val	Leu	Arg Gln	Ser	Lys	Leu	Met	Tyr	
1235					1240						
Phe Glu	Asn Asp	Ser Glu	Glu	Lys	Leu Lys	Gly	Thr	Val	Glu	Val	
1250					1255						
Arg Thr	Ala Lys	Glu Ile	Ile	Asp	Asn Thr	Thr	Lys	Glu	Asn	Gly	
1265					1270						
Ile Asp	Ile Ile	Met Ala	Asp	Arg	Thr Phe	His	Leu	Ile	Ala	Glu	
1280					1285						
Ser Pro	Glu Asp	Ala Ser	Gln	Trp	Phe Ser	Val	Leu	Ser	Gln	Val	
1295					1300						
His Ala	Ser Thr	Asp Gln	Glu	Ile	Gln Glu	Met	His	Asp	Glu	Gln	
1310					1315						
Ala Asn	Pro Gln	Asn Ala	Val	Gly	Thr Leu	Asp	Val	Gly	Leu	Ile	
1325					1330						
Asp Ser	Val Cys	Ala Ser	Asp	Ser	Pro Asp	Arg	Pro	Asn	Ser	Phe	
1340					1345						
Val Ile	Ile Thr	Ala Asn	Arg	Val	Leu His	Cys	Asn	Ala	Asp	Thr	
1355					1360						
Pro Glu	Glu Met	His His	Trp	Ile	Thr Leu	Leu	Gln	Arg	Ser	Lys	
1370					1375						
Gly Asp	Thr Arg	Val Glu	Gly	Gln	Glu Phe	Ile	Val	Arg	Gly	Trp	
1385					1390						
Leu His	Lys Glu	Val Lys	Asn	Ser	Pro Lys	Met	Ser	Ser	Leu	Lys	
1400					1405						
Leu Lys	Lys Arg	Trp Phe	Val	Leu	Thr His	Asn	Ser	Leu	Asp	Tyr	
1415					1420						
Tyr Lys	Ser Ser	Glu Lys	Asn	Ala	Leu Lys	Leu	Gly	Thr	Leu	Val	
1430					1435						
Leu Asn	Ser Leu	Cys Ser	Val	Val	Pro Pro	Asp	Glu	Lys	Ile	Phe	
1445					1450						
Lys Glu	Thr Gly	Tyr Trp	Asn	Val	Thr Val	Tyr	Gly	Arg	Lys	His	
1460					1465						
Cys Tyr	Arg Leu	Tyr Thr	Lys	Leu	Leu Asn	Glu	Ala	Thr	Arg	Trp	
1475					1480						
Ser Ser	Ala Ile	Gln Asn	Val	Thr	Asp Thr	Lys	Ala	Pro	Ile	Asp	
1490					1495						
Thr Pro	Thr Gln	Gln Leu	Ile	Gln	Asp Ile	Lys	Glu	Asn	Cys	Leu	
1505					1510						
Asn Ser	Asp Val	Val Glu	Gln	Ile	Tyr Lys	Arg	Asn	Pro	Ile	Leu	
1520					1525						
Arg Tyr	Thr His	His Pro	Leu	His	Ser Pro	Leu	Leu	Pro	Leu	Pro	
1535					1540						
Tyr Gly	Asp Ile	Asn Leu	Asn	Leu	Leu Lys	Asp	Lys	Gly	Tyr	Thr	
1550					1555						
Thr Leu	Gln Asp	Glu Ala	Ile	Lys	Ile Phe	Asn	Ser	Leu	Gln	Gln	
1565					1570						
Leu Glu	Ser Met	Ser Asp	Pro	Ile	Pro Ile	Ile	Gln	Gly	Ile	Leu	
1580					1585						
Gln Thr	Gly His	Asp Leu	Arg	Pro	Leu Arg	Asp	Glu	Leu	Tyr	Cys	
1595					1600						
Gln Leu	Ile Lys	Gln Thr	Asn	Lys	Val Pro	His	Pro	Gly	Ser	Val	
1610					1615						
Gly Asn	Leu Tyr	Ser Trp	Gln	Ile	Leu Thr	Cys	Leu	Ser	Cys	Thr	
1625					1630						
Phe Leu	Pro Ser	Arg Gly	Ile	Leu	Lys Tyr	Leu	Lys	Phe	His	Leu	
1640					1645						
											1650

Lys	Arg	Ile	Arg	Glu	Gln	Phe	Pro	Gly	Thr	Glu	Met	Glu	Lys	Tyr
1655						1660					1665			
Ala	Leu	Phe	Thr	Tyr	Glu	Ser	Leu	Lys	Lys	Thr	Lys	Cys	Arg	Glu
1670						1675					1680			
Phe	Val	Pro	Ser	Arg	Asp	Glu	Ile	Glu	Ala	Leu	Ile	His	Arg	Gln
1685						1690					1695			
Glu	Met	Thr	Ser	Thr	Val	Tyr	Cys	His	Gly	Gly	Gly	Ser	Cys	Lys
1700						1705					1710			
Ile	Thr	Ile	Asn	Ser	His	Thr	Thr	Ala	Gly	Glu	Val	Val	Glu	Lys
1715						1720					1725			
Leu	Ile	Arg	Gly	Leu	Ala	Met	Glu	Asp	Ser	Arg	Asn	Met	Phe	Ala
1730						1735					1740			
Leu	Phe	Glu	Tyr	Asn	Gly	His	Val	Asp	Lys	Ala	Ile	Glu	Ser	Arg
1745						1750					1755			
Thr	Val	Val	Ala	Asp	Val	Leu	Ala	Lys	Phe	Glu	Lys	Leu	Ala	Ala
1760						1765					1770			
Thr	Ser	Glu	Val	Gly	Asp	Leu	Pro	Trp	Lys	Phe	Tyr	Phe	Lys	Leu
1775						1780					1785			
Tyr	Cys	Phe	Leu	Asp	Thr	Asp	Asn	Val	Pro	Lys	Asp	Ser	Val	Glu
1790						1795					1800			
Phe	Ala	Phe	Met	Phe	Glu	Gln	Ala	His	Glu	Ala	Val	Ile	His	Gly
1805						1810					1815			
His	His	Pro	Ala	Pro	Glu	Glu	Asn	Leu	Gln	Val	Leu	Ala	Ala	Leu
1820						1825					1830			
Arg	Leu	Gln	Tyr	Leu	Gln	Gly	Asp	Tyr	Thr	Leu	His	Ala	Ala	Ile
1835						1840					1845			
Pro	Pro	Leu	Glu	Glu	Val	Tyr	Ser	Leu	Gln	Arg	Leu	Lys	Ala	Arg
1850						1855					1860			
Ile	Ser	Gln	Ser	Thr	Lys	Thr	Phe	Thr	Pro	Cys	Glu	Arg	Leu	Glu
1865						1870					1875			
Lys	Arg	Arg	Thr	Ser	Phe	Leu	Glu	Gly	Thr	Leu	Arg	Arg	Ser	Phe
1880						1885					1890			
Arg	Thr	Gly	Ser	Val	Val	Arg	Gln	Lys	Val	Glu	Glu	Glu	Gln	Met
1895						1900					1905			
Leu	Asp	Met	Trp	Ile	Lys	Glu	Glu	Val	Ser	Ser	Ala	Arg	Ala	Ser
1910						1915					1920			
Ile	Ile	Asp	Lys	Trp	Arg	Lys	Phe	Gln	Gly	Met	Asn	Gln	Glu	Gln
1925						1930					1935			
Ala	Met	Ala	Lys	Tyr	Met	Ala	Leu	Ile	Lys	Glu	Trp	Pro	Gly	Tyr
1940						1945					1950			
Gly	Ser	Thr	Leu	Phe	Asp	Val	Glu	Cys	Lys	Glu	Gly	Gly	Phe	Pro
1955						1960					1965			
Gln	Glu	Leu	Trp	Leu	Gly	Val	Ser	Ala	Asp	Ala	Val	Ser	Val	Tyr
1970						1975					1980			
Lys	Arg	Gly	Glu	Gly	Arg	Pro	Leu	Glu	Val	Phe	Gln	Tyr	Glu	His
1985						1990					1995			
Ile	Leu	Ser	Phe	Gly	Ala	Pro	Leu	Ala	Asn	Thr	Tyr	Lys	Ile	Val
2000						2005					2010			
Val	Asp	Glu	Arg	Glu	Leu	Leu	Phe	Glu	Thr	Ser	Glu	Val	Val	Asp
2015						2020					2025			
Val	Ala	Lys	Leu	Met	Lys	Ala	Tyr	Ile	Ser	Met	Ile	Val	Lys	Lys
2030						2035					2040			
Arg	Tyr	Ser	Thr	Thr	Arg	Ser	Ala	Ser	Ser	Gln	Gly	Ser	Ser	Arg
2045						2050					2055			

&lt;210&gt; 183

&lt;211&gt; 1210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

Met	Arg	Pro	Ser	Gly	Thr	Ala	Gly	Ala	Ala	Leu	Leu	Ala	Leu	Leu	Ala
1				5				10					15		
Ala	Leu	Cys	Pro	Ala	Ser	Arg	Ala	Leu	Glu	Glu	Lys	Lys	Val	Cys	Gln
			20					25					30		
Gly	Thr	Ser	Asn	Lys	Leu	Thr	Gln	Leu	Gly	Thr	Phe	Glu	Asp	His	Phe
			35				40					45			
Leu	Ser	Leu	Gln	Arg	Met	Phe	Asn	Asn	Cys	Glu	Val	Val	Leu	Gly	Asn
			50			55					60				
Leu	Glu	Ile	Thr	Tyr	Val	Gln	Arg	Asn	Tyr	Asp	Leu	Ser	Phe	Leu	Lys

65	Thr	Ile	Gln	Glu	Val	Ala	Gly	Tyr	Val	Leu	Ile	Ala	Leu	Asn	Thr	Val	80
					85					90						95	
	Glu	Arg	Ile	Pro	Leu	Glu	Asn	Leu	Gln	Ile	Ile	Arg	Gly	Asn	Met	Tyr	
				100					105							110	
	Tyr	Glu	Asn	Ser	Tyr	Ala	Leu	Ala	Val	Leu	Ser	Asn	Tyr	Asp	Ala	Asn	
				115					120							125	
	Lys	Thr	Gly	Leu	Lys	Glu	Leu	Pro	Met	Arg	Asn	Leu	Gln	Glu	Ile	Leu	
				130					135							140	
	His	Gly	Ala	Val	Arg	Phe	Ser	Asn	Asn	Pro	Ala	Leu	Cys	Asn	Val	Glu	
						150										160	
	Ser	Ile	Gln	Trp	Arg	Asp	Ile	Val	Ser	Ser	Asp	Phe	Leu	Ser	Asn	Met	
				165												175	
	Ser	Met	Asp	Phe	Gln	Asn	His	Leu	Gly	Ser	Cys	Gln	Lys	Cys	Asp	Pro	
				180					185							190	
	Ser	Cys	Pro	Asn	Gly	Ser	Cys	Trp	Gly	Ala	Gly	Glu	Glu	Asn	Cys	Gln	
				195					200							205	
	Lys	Leu	Thr	Lys	Ile	Ile	Cys	Ala	Gln	Gln	Cys	Ser	Gly	Arg	Cys	Arg	
				210					215							220	
	Gly	Lys	Ser	Pro	Ser	Asp	Cys	Cys	His	Asn	Gln	Cys	Ala	Ala	Gly	Cys	
						230										240	
	Thr	Gly	Pro	Arg	Glu	Ser	Asp	Cys	Leu	Val	Cys	Arg	Lys	Phe	Arg	Asp	
						245										255	
	Glu	Ala	Thr	Cys	Lys	Asp	Thr	Cys	Pro	Pro	Leu	Met	Leu	Tyr	Asn	Pro	
				260												270	
	Thr	Thr	Tyr	Gln	Met	Asp	Val	Asn	Pro	Glu	Gly	Lys	Tyr	Ser	Phe	Gly	
									280							285	
	Ala	Thr	Cys	Val	Lys	Lys	Cys	Pro	Arg	Asn	Tyr	Val	Val	Thr	Asp	His	
									295							300	
	Gly	Ser	Cys	Val	Arg	Ala	Cys	Gly	Ala	Asp	Ser	Tyr	Glu	Met	Glu	Glu	
						310										320	
	Asp	Gly	Val	Arg	Lys	Cys	Lys	Lys	Cys	Glu	Gly	Pro	Cys	Arg	Lys	Val	
						325										335	
	Cys	Asn	Gly	Ile	Gly	Ile	Gly	Glu	Phe	Lys	Asp	Ser	Leu	Ser	Ile	Asn	
				340												350	
	Ala	Thr	Asn	Ile	Lys	His	Phe	Lys	Asn	Cys	Thr	Ser	Ile	Ser	Gly	Asp	
									360							365	
	Leu	His	Ile	Leu	Pro	Val	Ala	Phe	Arg	Gly	Asp	Ser	Phe	Thr	His	Thr	
									375							380	
	Pro	Pro	Leu	Asp	Pro	Gln	Glu	Leu	Asp	Ile	Leu	Lys	Thr	Val	Lys	Glu	
						390										400	
	Ile	Thr	Gly	Phe	Leu	Leu	Ile	Gln	Ala	Trp	Pro	Glu	Asn	Arg	Thr	Asp	
						405										415	
	Leu	His	Ala	Phe	Glu	Asn	Leu	Glu	Ile	Arg	Gly	Arg	Thr	Lys	Gln		
									425							430	
	His	Gly	Gln	Phe	Ser	Leu	Ala	Val	Val	Ser	Leu	Asn	Ile	Thr	Ser	Leu	
									440							445	
	Gly	Leu	Arg	Ser	Leu	Lys	Glu	Ile	Ser	Asp	Gly	Asp	Val	Ile	Ile	Ser	
									455							460	
	Gly	Asn	Lys	Asn	Leu	Cys	Tyr	Ala	Asn	Thr	Ile	Asn	Trp	Lys	Lys	Leu	
						470										480	
	Phe	Gly	Thr	Ser	Gly	Gln	Lys	Thr	Lys	Ile	Ile	Ser	Asn	Arg	Gly	Glu	
						485										495	
	Asn	Ser	Cys	Lys	Ala	Thr	Gly	Gln	Val	Cys	His	Ala	Leu	Cys	Ser	Pro	
									505							510	
	Glu	Gly	Cys	Trp	Gly	Pro	Glu	Pro	Arg	Asp	Cys	Val	Ser	Cys	Arg	Asn	
									520							525	
	Val	Ser	Arg	Gly	Arg	Glu	Cys	Val	Asp	Lys	Cys	Asn	Leu	Leu	Glu	Gly	
									535							540	
	Glu	Pro	Arg	Glu	Phe	Val	Glu	Asn	Ser	Glu	Cys	Ile	Gln	Cys	His	Pro	
						550										560	
	Glu	Cys	Leu	Pro	Gln	Ala	Met	Asn	Ile	Thr	Cys	Thr	Gly	Arg	Gly	Pro	
						565										575	
	Asp	Asn	Cys	Ile	Gln	Cys	Ala	His	Tyr	Ile	Asp	Gly	Pro	His	Cys	Val	
									585							590	
	Lys	Thr	Cys	Pro	Ala	Gly	Val	Met	Gly	Glu	Asn	Asn	Thr	Leu	Val	Trp	
									600							605	
	Lys	Tyr	Ala	Asp	Ala	Gly	His	Val	Cys	His	Leu	Cys	His	Pro	Asn	Cys	
																610	
																	620

Thr	Tyr	Gly	Cys	Thr	Gly	Pro	Gly	Leu	Glu	Gly	Cys	Pro	Thr	Asn	Gly
625					630					635					640
Pro	Lys	Ile	Pro	Ser	Ile	Ala	Thr	Gly	Met	Val	Gly	Ala	Leu	Leu	Leu
				645					650						655
Leu	Leu	Val	Val	Ala	Leu	Gly	Ile	Gly	Leu	Phe	Met	Arg	Arg	Arg	His
				660				665						670	
Ile	Val	Arg	Lys	Arg	Thr	Leu	Arg	Arg	Leu	Leu	Gln	Glu	Arg	Glu	Leu
		675					680					685			
Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly	Glu	Ala	Pro	Asn	Gln	Ala	Leu	Leu
		690				695					700				
Arg	Ile	Leu	Lys	Glu	Thr	Glu	Phe	Lys	Lys	Ile	Lys	Val	Leu	Gly	Ser
705					710					715					720
Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys	Gly	Leu	Trp	Ile	Pro	Glu	Gly	Glu
				725					730						735
Lys	Val	Lys	Ile	Pro	Val	Ala	Ile	Lys	Glu	Leu	Arg	Glu	Ala	Thr	Ser
			740					745						750	
Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu	Asp	Glu	Ala	Tyr	Val	Met	Ala	Ser
		755					760								
Val	Asp	Asn	Pro	His	Val	Cys	Arg	Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser
		770				775					780				
Thr	Val	Gln	Leu	Ile	Thr	Gln	Leu	Met	Pro	Phe	Gly	Cys	Leu	Leu	Asp
785					790					795					800
Tyr	Val	Arg	Glu	His	Lys	Asp	Asn	Ile	Gly	Ser	Gln	Tyr	Leu	Leu	Asn
				805					810						815
Trp	Cys	Val	Gln	Ile	Ala	Lys	Gly	Met	Asn	Tyr	Leu	Glu	Asp	Arg	Arg
			820					825						830	
Leu	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Lys	Thr	Pro
		835					840							845	
Gln	His	Val	Lys	Ile	Thr	Asp	Phe	Gly	Leu	Ala	Lys	Leu	Leu	Gly	Ala
		850				855					860				
Glu	Glu	Lys	Glu	Tyr	His	Ala	Glu	Gly	Gly	Lys	Val	Pro	Ile	Lys	Trp
865					870					875					880
Met	Ala	Leu	Glu	Ser	Ile	Leu	His	Arg	Ile	Tyr	Thr	His	Gln	Ser	Asp
				885					890						895
Val	Trp	Ser	Tyr	Gly	Val	Thr	Val	Trp	Glu	Leu	Met	Thr	Phe	Gly	Ser
			900					905						910	
Lys	Pro	Tyr	Asp	Gly	Ile	Pro	Ala	Ser	Glu	Ile	Ser	Ser	Ile	Leu	Glu
		915					920							925	
Lys	Gly	Glu	Arg	Leu	Pro	Gln	Pro	Pro	Ile	Cys	Thr	Ile	Asp	Val	Tyr
		930				935					940				
Met	Ile	Met	Val	Lys	Cys	Trp	Met	Ile	Asp	Ala	Asp	Ser	Arg	Pro	Lys
945					950					955					960
Phe	Arg	Glu	Leu	Ile	Ile	Glu	Phe	Ser	Lys	Met	Ala	Arg	Asp	Pro	Gln
				965					970						975
Arg	Tyr	Leu	Val	Ile	Gln	Gly	Asp	Glu	Arg	Met	His	Leu	Pro	Ser	Pro
			980					985						990	
Thr	Asp	Ser	Asn	Phe	Tyr	Arg	Ala	Leu	Met	Asp	Glu	Glu	Asp	Met	Asp
		995					1000								
Asp	Val	Val	Asp	Ala	Asp	Glu	Tyr	Leu	Ile	Pro	Gln	Gln	Gly	Phe	
		1010					1015					1020			
Phe	Ser	Ser	Pro	Ser	Thr	Ser	Arg	Thr	Pro	Leu	Leu	Ser	Ser	Leu	
		1025					1030								
Ser	Ala	Thr	Ser	Asn	Asn	Ser	Thr	Val	Ala	Cys	Ile	Asp	Arg	Asn	
		1040					1045								
Gly	Leu	Gln	Ser	Cys	Pro	Ile	Lys	Glu	Asp	Ser	Phe	Leu	Gln	Arg	
		1055					1060								
Tyr	Ser	Ser	Asp	Pro	Thr	Gly	Ala	Leu	Thr	Glu	Asp	Ser	Ile	Asp	
		1070					1075								
Asp	Thr	Phe	Leu	Pro	Val	Pro	Glu	Tyr	Ile	Asn	Gln	Ser	Val	Pro	
		1085					1090								
Lys	Arg	Pro	Ala	Gly	Ser	Val	Gln	Asn	Pro	Val	Tyr	His	Asn	Gln	
		1100					1105								
Pro	Leu	Asn	Pro	Ala	Pro	Ser	Arg	Asp	Pro	His	Tyr	Gln	Asp	Pro	
		1115					1120								
His	Ser	Thr	Ala	Val	Gly	Asn	Pro	Glu	Tyr	Leu	Asn	Thr	Val	Gln	
		1130					1135								
Pro	Thr	Cys	Val	Asn	Ser	Thr	Phe	Asp	Ser	Pro	Ala	His	Trp	Ala	
		1145					1150								
Gln	Lys	Gly	Ser	His	Gln	Ile	Ser	Leu	Asp	Asn	Pro	Asp	Tyr	Gln	



1160  
 Gln Asp Phe Phe Pro Lys Glu 1165  
 1175  
 Gly Ser Thr Ala Glu Asn Ala 1180  
 1190  
 Ser Ser Glu Phe Ile Gly Ala 1195  
 1205 1210

1170  
 Gly Ile Phe Lys  
 1185  
 Val Ala Pro Gln  
 1200

<210> 184  
 <211> 453  
 <212> PRT  
 <213> Homo sapiens  
 <400> 184

Met Pro Lys Asn Lys Lys Arg Asn Thr Pro His Arg Gly Ser Ser Ala  
 1 5 10 15  
 Gly Gly Gly Gly Ser Gly Ala Ala Ala Thr Ala Ala Thr Ala Gly  
 20 25 30  
 Gly Gln His Arg Asn Val Gln Pro Phe Ser Asp Glu Asp Ala Ser Ile  
 35 40 45  
 Glu Thr Met Ser His Cys Ser Gly Tyr Ser Asp Pro Ser Ser Phe Ala  
 50 55 60  
 Glu Asp Gly Pro Glu Val Leu Asp Glu Glu Gly Thr Gln Glu Asp Leu  
 65 70 75 80  
 Glu Tyr Lys Arg Lys Gly Leu Ile Asp Leu Thr Leu Asp Lys Ser Ala  
 85 90 95  
 Lys Thr Arg Gln Ala Ala Leu Glu Gly Ile Lys Asn Ala Leu Ala Ser  
 100 105 110  
 Lys Met Leu Tyr Glu Phe Ile Leu Glu Arg Arg Met Thr Leu Thr Asp  
 115 120 125  
 Ser Ile Glu Arg Cys Leu Lys Lys Gly Lys Ser Asp Glu Gln Arg Ala  
 130 135 140  
 Ala Ala Ala Leu Ala Ser Val Leu Cys Ile Gln Leu Gly Pro Gly Ile  
 145 150 155 160  
 Glu Ser Glu Glu Ile Leu Lys Thr Leu Gly Pro Ile Leu Lys Lys Ile  
 165 170 175  
 Ile Cys Asp Gly Ser Ala Ser Met Gln Ala Arg Gln Thr Cys Ala Thr  
 180 185 190  
 Cys Phe Gly Val Cys Cys Phe Ile Ala Thr Asp Asp Ile Thr Glu Leu  
 195 200 205  
 Tyr Ser Thr Leu Glu Cys Leu Glu Asn Ile Phe Thr Lys Ser Tyr Leu  
 210 215 220  
 Lys Glu Lys Asp Thr Thr Val Ile Cys Ser Thr Pro Asn Thr Val Leu  
 225 230 235 240  
 His Ile Ser Ser Leu Leu Ala Trp Thr Leu Leu Leu Thr Ile Cys Pro  
 245 250 255  
 Ile Asn Glu Val Lys Lys Lys Leu Glu Met His Phe His Lys Leu Pro  
 260 265 270  
 Ser Leu Leu Ser Cys Asp Asp Val Asn Met Arg Ile Ala Ala Gly Glu  
 275 280 285  
 Ser Leu Ala Leu Leu Phe Glu Ser Leu Thr Gln Met Leu Arg Ala Leu Ala  
 290 295 300  
 Phe Tyr Glu Asp Met Glu Ser Leu Thr Gln Met Leu Arg Ala Leu Ala  
 305 310 315 320  
 Thr Asp Gly Asn Lys His Arg Ala Lys Val Asp Lys Arg Lys Gln Arg  
 325 330 335  
 Ser Val Phe Arg Asp Val Leu Arg Ala Val Glu Glu Arg Asp Phe Pro  
 340 345 350  
 Thr Glu Thr Ile Lys Phe Gly Pro Glu Arg Met Tyr Ile Asp Cys Trp  
 355 360 365  
 Val Lys Lys His Thr Tyr Asp Thr Phe Lys Glu Val Leu Gly Ser Gly  
 370 375 380  
 Met Gln Tyr Pro Leu Ala Val Lys Met Glu Phe Leu Glu Asn Val Phe  
 385 390 395 400  
 Glu Thr Trp Thr Pro Ser Asp Ala Leu Met Leu Gln Arg Leu Lys Thr  
 405 410 415  
 Met Lys Ile Ser Arg Phe Glu Arg His Leu Tyr Asn Ser Ala Ala Phe  
 420 425 430  
 Lys Ala Arg Thr Lys Ala Arg Ser Lys Cys Arg Asp Lys Arg Ala Asp  
 435 440 445

Val Gly Glu Phe Phe  
450

<210> 185

<211> 341

<212> PRT

<213> Homo sapiens

<400> 185

```

Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp
1      5      10      15
Glu Asp Glu Ile Ile Val Pro Lys Lys Lys Leu Val Asp Pro Val Ala
20      25      30
Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp
35      40      45
Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp
50      55      60
Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro
65      70      75      80
Ser Glu Gly Gly Val Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met
85      90      95
Glu Glu Gly His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp
100     105     110
Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile
115     120     125
Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu
130     135     140
Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly
145     150     155     160
Leu Leu Glu Leu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg
165     170     175
Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln
180     185     190
Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln
195     200     205
Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg
210     215     220
Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His
225     230     235     240
Asn Pro Thr Pro Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala
245     250     255
Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu
260     265     270
Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu
275     280     285
Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met
290     295     300
Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg
305     310     315     320
Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp
325     330     335
Phe Asp Leu Tyr Thr
340

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<210> 186

<211> 182

<212> PRT

<213> Homo sapiens

<400> 186

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Met Gly Leu Leu Ser Ile Leu Arg Lys Leu Lys Ser Ala Pro Asp Gln
1      5      10      15
Glu Val Arg Ile Leu Leu Leu Gly Leu Asp Asn Ala Gly Lys Thr Thr
20      25      30
Leu Leu Lys Gln Leu Ala Ser Glu Asp Ile Ser His Ile Thr Pro Thr
35      40      45
Gln Gly Phe Asn Ile Lys Ser Val Gln Ser Gln Gly Phe Lys Leu Asn
50      55      60
Val Trp Asp Ile Gly Gly Gln Arg Lys Ile Arg Pro Tyr Trp Lys Asn
65      70      75      80
Tyr Phe Glu Asn Thr Asp Ile Leu Ile Tyr Val Ile Asp Ser Ala Asp

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85 90 95  
 Arg Lys Arg Phe Glu Glu Thr Gly Gln Glu Leu Ala Glu Leu Leu Glu  
 100 105 110  
 Glu Glu Lys Leu Ser Cys Val Pro Val Leu Ile Phe Ala Asn Lys Gln  
 115 120 125  
 Asp Leu Leu Thr Ala Ala Pro Ala Ser Glu Ile Ala Glu Gly Leu Asn  
 130 135 140  
 Leu His Thr Ile Arg Asp Arg Val Trp Gln Ile Gln Ser Cys Ser Ala  
 145 150 155 160  
 Leu Thr Gly Glu Gly Val Gln Asp Gly Met Asn Trp Val Cys Lys Asn  
 165 170 175  
 Val Asn Ala Lys Lys Lys  
 180  
  
 <210> 187  
 <211> 398  
 <212> PRT  
 <213> Homo sapiens  
 <400> 187  
 Met Ala Leu Leu Arg Arg Pro Thr Val Ser Ser Asp Leu Glu Asn Ile  
 1 5 10 15  
 Asp Thr Gly Val Asn Ser Lys Val Lys Ser His Val Thr Ile Arg Arg  
 20 25 30  
 Thr Val Leu Glu Glu Ile Gly Asn Arg Val Thr Thr Arg Ala Ala Gln  
 35 40 45  
 Val Ala Lys Lys Ala Gln Asn Thr Lys Val Pro Val Gln Pro Thr Lys  
 50 55 60  
 Thr Thr Asn Val Asn Lys Gln Leu Lys Pro Thr Ala Ser Val Lys Pro  
 65 70 75 80  
 Val Gln Met Glu Lys Leu Ala Pro Lys Gly Pro Ser Pro Thr Pro Glu  
 85 90 95  
 Asp Val Ser Met Lys Glu Glu Asn Leu Cys Gln Ala Phe Ser Asp Ala  
 100 105 110  
 Leu Leu Cys Lys Ile Glu Asp Ile Asp Asn Glu Asp Trp Glu Asn Pro  
 115 120 125  
 Gln Leu Cys Ser Asp Tyr Val Lys Asp Ile Tyr Gln Tyr Leu Arg Gln  
 130 135 140  
 Leu Glu Val Leu Gln Ser Ile Asn Pro His Phe Leu Asp Gly Arg Asp  
 145 150 155 160  
 Ile Asn Gly Arg Met Arg Ala Ile Leu Val Asp Trp Leu Val Gln Val  
 165 170 175  
 His Ser Lys Phe Arg Leu Leu Gln Glu Thr Leu Tyr Met Cys Val Gly  
 180 185 190  
 Ile Met Asp Arg Phe Leu Gln Val Gln Pro Val Ser Arg Lys Lys Leu  
 195 200 205  
 Gln Leu Val Gly Ile Thr Ala Leu Leu Leu Ala Ser Lys Tyr Glu Glu  
 210 215 220  
 Met Phe Ser Pro Asn Ile Glu Asp Phe Val Tyr Ile Thr Asp Asn Ala  
 225 230 235 240  
 Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu Thr Leu Ile Leu Lys Glu  
 245 250 255  
 Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro Leu His Phe Leu Arg Arg  
 260 265 270  
 Ala Ser Lys Ala Gly Glu Val Asp Val Glu Gln His Thr Leu Ala Lys  
 275 280 285  
 Tyr Leu Met Glu Leu Thr Leu Ile Asp Tyr Asp Met Val His Tyr His  
 290 295 300  
 Pro Ser Lys Val Ala Ala Ala Ala Ser Cys Leu Ser Gln Lys Val Leu  
 305 310 315 320  
 Gly Gln Gly Lys Trp Asn Leu Lys Gln Gln Tyr Tyr Thr Gly Tyr Thr  
 325 330 335  
 Glu Asn Glu Val Leu Glu Val Met Gln His Met Ala Lys Asn Val Val  
 340 345 350  
 Lys Val Asn Glu Asn Leu Thr Lys Phe Ile Ala Ile Lys Asn Lys Tyr  
 355 360 365  
 Ala Ser Ser Lys Leu Leu Lys Ile Ser Met Ile Pro Gln Leu Asn Ser  
 370 375 380  
 Lys Ala Val Lys Asp Leu Ala Ser Pro Leu Ile Gly Arg Ser  
 385 390 395

<210> 188  
 <211> 376  
 <212> PRT  
 <213> Homo sapiens  
 <400> 188

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Met Gln Trp Ala Ser Leu Leu Leu Leu Ala Gly Leu Phe Ser Leu Ser
1      5      10      15
Gln Ala Gln Tyr Glu Asp Asp Pro His Trp Trp Phe His Tyr Leu Arg
20
Ser Gln Gln Ser Thr Tyr Tyr Asp Pro Tyr Asp Pro Tyr Pro Tyr Glu
35      40      45
Thr Tyr Glu Pro Tyr Pro Tyr Gly Val Asp Glu Gly Pro Ala Tyr Thr
50      55      60
Tyr Gly Ser Pro Ser Pro Pro Asp Pro Arg Asp Cys Pro Gln Glu Cys
65      70      75      80
Asp Cys Pro Pro Asn Phe Leu Thr Ala Met Tyr Cys Asp Asn Arg Asn
85      90      95
Leu Lys Tyr Leu Pro Phe Val Pro Ser Arg Met Lys Tyr Val Tyr Phe
100      105      110
Gln Asn Asn Gln Ile Thr Ser Ile Gln Glu Gly Val Phe Asp Asn Ala
115      120      125
Thr Gly Leu Leu Trp Ile Ala Leu His Gly Asn Gln Ile Thr Ser Asp
130      135      140
Lys Val Gly Arg Lys Val Phe Ser Lys Leu Arg His Leu Glu Arg Leu
145      150      155      160
Tyr Leu Asp His Asn Asn Leu Thr Arg Met Pro Gly Pro Leu Pro Arg
165      170      175
Ser Leu Arg Glu Leu His Leu Asp His Asn Gln Ile Ser Arg Val Pro
180      185      190
Asn Asn Ala Leu Glu Gly Leu Glu Asn Leu Thr Ala Leu Tyr Leu Gln
195      200      205
His Asp Glu Ile Gln Glu Val Gly Ser Ser Met Arg Gly Leu Arg Ser
210      215      220
Leu Ile Leu Leu Asp Leu Ser Tyr Asn His Leu Arg Lys Val Pro Asp
225      230      235      240
Gly Leu Pro Ser Ala Leu Glu Gln Leu Tyr Met Glu His Asn Asn Val
245      250      255
Tyr Thr Val Pro Asp Ser Tyr Phe Arg Gly Ala Pro Lys Leu Leu Tyr
260      265      270
Val Arg Leu Ser His Asn Ser Leu Thr Asn Asn Gly Leu Ala Ser Asn
275      280      285
Thr Phe Asn Ser Ser Ser Leu Leu Glu Leu Asp Leu Ser Tyr Asn Gln
290      295      300
Leu Gln Lys Ile Pro Pro Val Asn Thr Asn Leu Glu Asn Leu Tyr Leu
305      310      315      320
Gln Gly Asn Arg Ile Asn Glu Phe Ser Ile Ser Ser Phe Cys Thr Val
325      330      335
Val Asp Val Val Asn Phe Ser Lys Leu Gln Val Val Arg Leu Asp Gly
340      345      350
Asn Glu Ile Lys Arg Ser Ala Met Pro Ala Asp Ala Pro Leu Cys Leu
355      360      365
Arg Leu Ala Ser Leu Ile Glu Ile
370      375

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<210> 189  
 <211> 535  
 <212> PRT  
 <213> Homo sapiens  
 <400> 189

```

Met Glu Glu Gly Ala Arg His Arg Asn Asn Thr Glu Lys Lys His Pro
1      5      10      15
Gly Gly Gly Glu Ser Asp Ala Ser Pro Glu Ala Gly Ser Gly Gly Gly
20      25      30
Gly Val Ala Leu Lys Lys Glu Ile Gly Leu Val Ser Ala Cys Gly Ile
35      40      45
Ile Val Gly Asn Ile Ile Gly Ser Gly Ile Phe Val Ser Pro Lys Gly
50      55      60
Val Leu Glu Asn Ala Gly Ser Val Gly Leu Ala Leu Ile Val Trp Ile

```

65 Val Thr Gly Phe Ile Thr Val Val Gly Ala Leu Cys Tyr Ala Glu Leu  
 70 85 90 95  
 Gly Val Thr Ile Pro Lys Ser Gly Gly Asp Tyr Ser Tyr Val Lys Asp  
 100 105 110  
 Ile Phe Gly Gly Leu Ala Gly Phe Leu Arg Leu Trp Ile Ala Val Leu  
 115 120 125  
 Val Ile Tyr Pro Thr Asn Gln Ala Val Ile Ala Leu Thr Phe Ser Asn  
 130 135 140  
 Tyr Val Leu Gln Pro Leu Phe Pro Thr Cys Phe Pro Pro Glu Ser Gly  
 145 150 155 160  
 Leu Arg Leu Leu Ala Ala Ile Cys Leu Leu Leu Thr Trp Val Asn  
 165 170 175  
 Cys Ser Ser Val Arg Trp Ala Thr Arg Val Gln Asp Ile Phe Thr Ala  
 180 185 190  
 Gly Lys Leu Leu Ala Leu Ala Leu Ile Ile Met Gly Ile Val Gln  
 195 200 205  
 Ile Cys Lys Gly Glu Tyr Phe Trp Leu Glu Pro Lys Asn Ala Phe Glu  
 210 215 220  
 Asn Phe Gln Glu Pro Asp Ile Gly Leu Val Ala Leu Ala Phe Leu Gln  
 225 230 235 240  
 Gly Ser Phe Ala Tyr Gly Gly Trp Asn Phe Leu Asn Tyr Val Thr Glu  
 245 250 255  
 Glu Leu Val Asp Pro Tyr Lys Asn Leu Pro Arg Ala Ile Phe Ile Ser  
 260 265 270  
 Ile Pro Leu Val Thr Phe Val Tyr Val Phe Ala Asn Val Ala Tyr Val  
 275 280 285  
 Thr Ala Met Ser Pro Gln Glu Leu Leu Ala Ser Asn Ala Val Ala Val  
 290 295 300  
 Thr Phe Gly Glu Lys Leu Leu Gly Val Met Ala Trp Ile Met Pro Ile  
 305 310 315 320  
 Ser Val Ala Leu Ser Thr Phe Gly Gly Val Asn Gly Ser Leu Phe Thr  
 325 330 335  
 Ser Ser Arg Leu Phe Phe Ala Gly Ala Arg Glu Gly His Leu Pro Ser  
 340 345 350  
 Val Leu Ala Met Ile His Val Lys Arg Cys Thr Pro Ile Pro Ala Leu  
 355 360 365  
 Leu Phe Thr Cys Ile Ser Thr Leu Leu Met Leu Val Thr Ser Asp Met  
 370 375 380  
 Tyr Thr Leu Ile Asn Tyr Val Gly Phe Ile Asn Tyr Leu Phe Tyr Gly  
 385 390 395 400  
 Val Thr Val Ala Gly Gln Ile Val Leu Arg Trp Lys Lys Pro Asp Ile  
 405 410 415  
 Pro Arg Pro Ile Lys Ile Asn Leu Leu Phe Pro Ile Ile Tyr Leu Leu  
 420 425 430  
 Phe Trp Ala Phe Leu Leu Val Phe Ser Leu Trp Ser Glu Pro Val Val  
 435 440 445  
 Cys Gly Ile Gly Leu Ala Ile Met Leu Thr Gly Val Pro Val Tyr Phe  
 450 455 460  
 Leu Gly Val Tyr Trp Gln His Lys Pro Lys Cys Phe Ser Asp Phe Ile  
 465 470 475 480  
 Glu Leu Leu Thr Leu Val Ser Gln Lys Met Cys Val Val Val Tyr Pro  
 485 490 495  
 Glu Val Glu Arg Gly Ser Gly Thr Glu Ala Asn Glu Asp Met Glu  
 500 505 510  
 Glu Gln Gln Gln Pro Met Tyr Gln Pro Thr Pro Thr Lys Asp Lys Asp  
 515 520 525  
 Val Ala Gly Gln Pro Gln Pro  
 530 535

&lt;210&gt; 190

&lt;211&gt; 225

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 190

Met Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val  
 1 5 10 15  
 Tyr Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys  
 20 25 30

Val Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu  
 35 40 45  
 Gly Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu  
 50 55 60  
 Leu Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu  
 65 70 75 80  
 Thr Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val  
 85 90 95  
 Asn Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val  
 100 105 110  
 Leu Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala  
 115 120 125  
 Leu Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr  
 130 135 140  
 Ala Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly  
 145 150 155 160  
 Pro Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu  
 165 170 175  
 Ala Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu  
 180 185 190  
 Gly Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala  
 195 200 205  
 Ala Lys Lys Lys Thr Asp Lys Lys Arg Ala Leu Arg Ala Leu Arg Arg  
 210 215 220  
 Leu  
 225

<210> 191  
 <211> 485  
 <212> PRT  
 <213> Homo sapiens  
 <400> 191

Met Arg Lys Arg Ala Pro Gln Ser Glu Met Ala Pro Ala Gly Val Ser  
 1 5 10 15  
 Leu Arg Ala Thr Ile Leu Cys Leu Leu Ala Trp Ala Gly Leu Ala Ala  
 20 25 30  
 Gly Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His Asn Glu  
 35 40 45  
 Ser Thr Cys Glu Gln Leu Ala Lys Ala Asn Ala Gly Lys Pro Lys Asp  
 50 55 60  
 Pro Thr Phe Ile Pro Ala Pro Ile Gln Ala Lys Thr Ser Pro Val Asp  
 65 70 75 80  
 Glu Lys Ala Leu Gln Asp Gln Leu Val Leu Val Ala Ala Lys Leu Asp  
 85 90 95  
 Thr Glu Asp Lys Leu Arg Ala Ala Met Val Gly Met Leu Ala Asn Phe  
 100 105 110  
 Leu Gly Phe Arg Ile Tyr Gly Met His Ser Glu Leu Trp Gly Val Val  
 115 120 125  
 His Gly Ala Thr Val Leu Ser Pro Thr Ala Val Phe Gly Thr Leu Ala  
 130 135 140  
 Ser Leu Tyr Leu Gly Ala Leu Asp His Thr Ala Asp Arg Leu Gln Ala  
 145 150 155 160  
 Ile Leu Gly Val Pro Trp Lys Asp Lys Asn Cys Thr Ser Arg Leu Asp  
 165 170 175  
 Ala His Lys Val Leu Ser Ala Leu Gln Ala Val Gln Gly Leu Leu Val  
 180 185 190  
 Ala Gln Gly Arg Ala Asp Ser Gln Ala Gln Leu Leu Leu Ser Thr Val  
 195 200 205  
 Val Gly Val Phe Thr Ala Pro Gly Leu His Leu Lys Gln Pro Phe Val  
 210 215 220  
 Gln Gly Leu Ala Leu Tyr Thr Pro Val Val Leu Pro Arg Ser Leu Asp  
 225 230 235 240  
 Phe Thr Glu Leu Asp Val Ala Ala Glu Lys Ile Asp Arg Phe Met Gln  
 245 250 255  
 Ala Val Thr Gly Trp Lys Thr Gly Cys Ser Leu Met Gly Ala Ser Val  
 260 265 270  
 Asp Ser Thr Leu Ala Phe Asn Thr Tyr Val His Phe Gln Gly Lys Met  
 275 280 285  
 Lys Gly Phe Ser Leu Leu Ala Glu Pro Gln Glu Phe Trp Val Asp Asn

290  
 Ser Thr Ser Val Ser Val Pro Met Leu Ser Gly Met Gly Thr Phe Gln  
 305  
 His Trp Ser Asp Ile Gln Asp Asn Phe Ser Val Thr Gln Val Pro Phe  
 310  
 Thr Glu Ser Ala Cys Leu Leu Leu Ile Gln Pro His Tyr Ala Ser Asp  
 325  
 Leu Asp Lys Val Glu Gly Leu Thr Phe Gln Gln Asn Ser Leu Asn Trp  
 340  
 Met Lys Lys Leu Ser Pro Arg Thr Ile His Leu Thr Met Pro Gln Leu  
 355  
 Val Leu Gln Gly Ser Tyr Asp Leu Gln Asp Leu Leu Ala Gln Ala Glu  
 370  
 Leu Pro Ala Ile Leu His Thr Glu Leu Asn Leu Gln Lys Leu Ser Asn  
 385  
 Asp Arg Ile Arg Val Gly Glu Val Leu Asn Ser Ile Phe Phe Glu Leu  
 405  
 Glu Ala Asp Glu Arg Glu Pro Thr Glu Ser Thr Gln Gln Leu Asn Lys  
 420  
 Pro Glu Val Leu Glu Val Thr Leu Asn Arg Pro Phe Leu Phe Ala Val  
 435  
 Tyr Asp Gln Ser Ala Thr Ala Leu His Phe Leu Gly Arg Val Ala Asn  
 450  
 Pro Leu Ser Thr Ala  
 465  
 470  
 475  
 480  
 485

&lt;210&gt; 192

&lt;211&gt; 279

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 192

Met Thr Glu Arg Phe Asp Cys His His Cys Asn Glu Ser Leu Phe Gly  
 1  
 Lys Lys Tyr Ile Leu Arg Glu Glu Ser Pro Tyr Cys Val Val Cys Phe  
 20  
 Glu Thr Leu Phe Ala Asn Thr Cys Glu Glu Cys Gly Lys Pro Ile Gly  
 35  
 Cys Asp Cys Lys Asp Leu Ser Tyr Lys Asp Arg His Trp His Glu Ala  
 50  
 Cys Phe His Cys Ser Gln Cys Arg Asn Ser Leu Val Asp Lys Pro Phe  
 65  
 Ala Ala Lys Glu Asp Gln Leu Leu Cys Thr Asp Cys Tyr Ser Asn Glu  
 85  
 Tyr Ser Ser Lys Cys Gln Glu Cys Lys Lys Thr Ile Met Pro Gly Thr  
 100  
 Arg Lys Met Glu Tyr Lys Gly Ser Ser Trp His Glu Thr Cys Phe Ile  
 115  
 Cys His Arg Cys Gln Gln Pro Ile Gly Thr Lys Ser Phe Ile Pro Lys  
 130  
 Asp Asn Gln Asn Phe Cys Val Pro Cys Tyr Glu Lys Gln His Ala Met  
 145  
 Gln Cys Val Gln Cys Lys Lys Pro Ile Thr Thr Gly Gly Val Thr Tyr  
 165  
 Arg Glu Gln Pro Trp His Lys Glu Cys Phe Val Cys Thr Ala Cys Arg  
 180  
 Lys Gln Leu Ser Gly Gln Arg Phe Thr Ala Arg Asp Asp Phe Ala Tyr  
 195  
 Cys Leu Asn Cys Phe Cys Asp Leu Tyr Ala Lys Lys Cys Ala Gly Cys  
 210  
 Thr Asn Pro Ile Ser Gly Leu Gly Gly Thr Lys Tyr Ile Ser Phe Glu  
 225  
 Glu Arg Gln Trp His Asn Asp Cys Phe Asn Cys Lys Lys Cys Ser Leu  
 245  
 Ser Leu Val Gly Arg Gly Phe Leu Thr Glu Arg Asp Asp Ile Leu Cys  
 260  
 Pro Asp Cys Gly Lys Asp Ile  
 275

&lt;210&gt; 193



<211> 738  
 <212> PRT  
 <213> Homo sapiens  
 <400> 193  
 Met Glu Lys Ser Arg Met Asn Leu Pro Lys Gly Pro Asp Thr Leu Cys  
 1 5 10 15  
 Phe Asp Lys Asp Glu Phe Met Lys Glu Asp Phe Asp Val Asp His Phe  
 20 25 30  
 Val Ser Asp Cys Arg Lys Arg Val Gln Leu Glu Glu Leu Arg Asp Asp  
 35 40 45  
 Leu Glu Leu Tyr Tyr Lys Leu Leu Lys Thr Ala Met Val Glu Leu Ile  
 50 55 60  
 Asn Lys Asp Tyr Ala Asp Phe Val Asn Leu Ser Thr Asn Leu Val Gly  
 65 70 75 80  
 Met Asp Lys Ala Leu Asn Gln Leu Ser Val Pro Leu Gly Gln Leu Arg  
 85 90 95  
 Glu Glu Val Leu Ser Leu Arg Ser Ser Val Ser Glu Gly Ile Arg Ala  
 100 105 110  
 Val Asp Glu Arg Met Ser Lys Gln Glu Asp Ile Arg Lys Lys Lys Met  
 115 120 125  
 Cys Val Leu Arg Leu Ile Gln Val Ile Arg Ser Val Glu Lys Ile Glu  
 130 135 140  
 Lys Ile Leu Asn Ser Gln Ser Ser Lys Glu Thr Ser Ala Leu Glu Ala  
 145 150 155 160  
 Ser Ser Pro Leu Leu Thr Gly Gln Ile Leu Glu Arg Ile Ala Thr Glu  
 165 170 175  
 Phe Asn Gln Leu Gln Phe His Ala Val Gln Ser Lys Gly Met Pro Leu  
 180 185 190  
 Leu Asp Lys Val Arg Pro Arg Ile Ala Gly Ile Thr Ala Met Leu Gln  
 195 200 205  
 Gln Ser Leu Glu Gly Leu Leu Glu Gly Leu Gln Thr Ser Asp Val  
 210 215 220  
 Asp Ile Ile Arg His Cys Leu Arg Thr Tyr Ala Thr Ile Asp Lys Thr  
 225 230 235 240  
 Arg Asp Ala Glu Ala Leu Val Gly Gln Val Leu Val Lys Pro Tyr Ile  
 245 250 255  
 Asp Glu Val Ile Ile Glu Gln Phe Val Glu Ser His Pro Asn Gly Leu  
 260 265 270  
 Gln Val Met Tyr Asn Lys Leu Leu Glu Phe Val Pro His His Cys Arg  
 275 280 285  
 Leu Leu Arg Glu Val Thr Gly Ala Ile Ser Ser Glu Lys Gly Asn  
 290 295 300  
 Thr Val Pro Gly Tyr Asp Phe Leu Val Asn Ser Val Trp Pro Gln Ile  
 305 310 315 320  
 Val Gln Gly Leu Glu Lys Leu Pro Ser Leu Phe Asn Pro Gly Asn  
 325 330 335  
 Pro Asp Ala Phe His Glu Lys Tyr Thr Ile Ser Met Asp Phe Val Arg  
 340 345 350  
 Arg Leu Glu Arg Gln Cys Gly Ser Gln Ala Ser Val Lys Arg Leu Arg  
 355 360 365  
 Ala His Pro Ala Tyr His Ser Phe Asn Lys Lys Trp Asn Leu Pro Val  
 370 375 380  
 Tyr Phe Gln Ile Arg Phe Arg Glu Ile Ala Gly Ser Leu Glu Ala Ala  
 385 390 395 400  
 Leu Thr Asp Val Leu Glu Asp Ala Pro Ala Glu Ser Pro Tyr Cys Leu  
 405 410 415  
 Leu Ala Ser His Arg Thr Trp Ser Ser Leu Arg Arg Cys Trp Ser Asp  
 420 425 430  
 Glu Met Phe Leu Pro Leu Leu Val His Arg Leu Trp Arg Leu Thr Leu  
 435 440 445  
 Gln Ile Leu Ala Arg Tyr Ser Val Phe Val Asn Glu Leu Ser Leu Arg  
 450 455 460  
 Pro Ile Ser Asn Glu Ser Pro Lys Glu Ile Lys Lys Pro Leu Val Thr  
 465 470 475 480  
 Gly Ser Lys Glu Pro Ser Ile Thr Gln Gly Asn Thr Glu Asp Gln Gly  
 485 490 495  
 Ser Gly Pro Ser Glu Thr Lys Pro Val Val Ser Ile Ser Arg Thr Gln  
 500 505 510  
 Leu Val Tyr Val Val Ala Asp Leu Asp Lys Leu Gln Glu Gln Leu Pro

515  
 Glu Leu Leu Glu Ile Ile Lys Pro Lys Leu Glu Met Ile Gly Phe Lys  
 530 535 540  
 Asn Phe Ser Ser Ile Ser Ala Ala Leu Glu Asp Ser Gln Ser Ser Phe  
 545 550 555 560  
 Ser Ala Cys Val Pro Ser Leu Ser Ser Lys Ile Ile Gln Asp Leu Ser  
 565 570 575  
 Asp Ser Cys Phe Gly Phe Leu Lys Ser Ala Leu Glu Val Pro Arg Leu  
 580 585 590  
 Tyr Arg Arg Thr Asn Lys Glu Val Pro Thr Thr Ala Ser Ser Tyr Val  
 595 600 605  
 Asp Ser Ala Leu Lys Pro Leu Phe Gln Leu Gln Ser Gly His Lys Asp  
 610 615 620  
 Lys Leu Lys Gln Ala Ile Ile Gln Gln Trp Leu Glu Gly Thr Leu Ser  
 625 630 635 640  
 Glu Ser Thr His Lys Tyr Tyr Glu Thr Val Ser Asp Val Leu Asn Ser  
 645 650 655  
 Val Lys Lys Met Glu Glu Ser Leu Lys Arg Leu Lys Gln Ala Arg Lys  
 660 665 670  
 Thr Thr Pro Ala Asn Pro Val Gly Pro Ser Gly Gly Met Ser Asp Asp  
 675 680 685  
 Asp Lys Ile Arg Leu Gln Leu Ala Leu Asp Val Glu Tyr Leu Gly Glu  
 690 695 700  
 Gln Ile Gln Lys Leu Gly Leu Gln Ala Ser Asp Ile Lys Ser Phe Ser  
 705 710 715 720  
 Ala Leu Ala Glu Leu Val Ala Ala Ala Lys Asp Gln Ala Thr Ala Glu  
 725 730 735  
 Gln Pro

<210> 194  
 <211> 963  
 <212> PRT  
 <213> Homo sapiens  
 <400> 194

Met Ala Val Phe Pro Trp His Ser Arg Asn Arg Asn Tyr Lys Ala Glu  
 1 5 10 15  
 Phe Ala Ser Cys Arg Leu Glu Ala Val Pro Leu Glu Phe Gly Asp Tyr  
 20 25 30  
 His Pro Leu Lys Pro Ile Thr Val Thr Glu Ser Lys Thr Lys Lys Val  
 35 40 45  
 Asn Arg Lys Gly Ser Thr Ser Ser Thr Ser Ser Ser Ser Ser Ser  
 50 55 60  
 Val Val Asp Pro Leu Ser Ser Val Leu Asp Gly Thr Asp Pro Leu Ser  
 65 70 75 80  
 Met Phe Ala Ala Thr Ala Asp Pro Ala Ala Leu Ala Ala Ala Met Asp  
 85 90 95  
 Ser Ser Arg Arg Lys Arg Asp Arg Asp Asn Ser Val Val Gly Ser  
 100 105 110  
 Asp Phe Glu Pro Trp Thr Asn Lys Arg Gly Glu Ile Leu Ala Arg Tyr  
 115 120 125  
 Thr Thr Thr Glu Lys Leu Ser Ile Asn Leu Phe Met Gly Ser Glu Lys  
 130 135 140  
 Gly Lys Ala Gly Thr Ala Thr Leu Ala Met Ser Glu Lys Val Arg Thr  
 145 150 155 160  
 Arg Leu Glu Glu Leu Asp Asp Phe Glu Glu Gly Ser Gln Lys Glu Leu  
 165 170 175  
 Leu Asn Leu Thr Gln Gln Asp Tyr Val Asn Arg Ile Glu Glu Leu Asn  
 180 185 190  
 Gln Ser Leu Lys Asp Ala Trp Ala Ser Asp Gln Lys Val Lys Ala Leu  
 195 200 205  
 Lys Ile Val Ile Gln Cys Ser Lys Leu Leu Ser Asp Thr Ser Val Ile  
 210 215 220  
 Gln Phe Tyr Pro Ser Lys Phe Val Leu Ile Thr Asp Ile Leu Asp Thr  
 225 230 235 240  
 Phe Gly Lys Leu Val Tyr Glu Arg Ile Phe Ser Met Cys Val Asp Ser  
 245 250 255  
 Arg Ser Val Leu Pro Asp His Phe Ser Pro Glu Asn Ala Asn Asp Thr  
 260 265 270

Ala Lys Glu Thr Cys Leu Asn Trp Phe Phe Lys Ile Ala Ser Ile Arg  
 275 280 285  
 Glu Leu Ile Pro Arg Phe Tyr Val Glu Ala Ser Ile Leu Lys Cys Asn  
 290 295 300  
 Lys Phe Leu Ser Lys Thr Gly Ile Ser Glu Cys Leu Pro Arg Leu Thr  
 305 310 315 320  
 Cys Met Ile Arg Gly Ile Gly Asp Pro Leu Val Ser Val Tyr Ala Arg  
 325 330 335  
 Ala Tyr Leu Cys Arg Val Gly Met Glu Val Ala Pro His Leu Lys Glu  
 340 345 350  
 Thr Leu Asn Lys Asn Phe Phe Asp Phe Leu Leu Thr Phe Lys Gln Ile  
 355 360 365  
 His Gly Asp Thr Val Gln Asn Gln Leu Val Val Gln Gly Val Glu Leu  
 370 375 380  
 Pro Ser Tyr Leu Pro Leu Tyr Pro Pro Ala Met Asp Trp Ile Phe Gln  
 385 390 395 400  
 Cys Ile Ser Tyr His Ala Pro Glu Ala Leu Leu Thr Glu Met Met Glu  
 405 410 415  
 Arg Cys Lys Lys Leu Gly Asn Asn Ala Leu Leu Leu Asn Ser Val Met  
 420 425 430  
 Ser Ala Phe Arg Ala Glu Phe Ile Ala Thr Arg Ser Met Asp Phe Ile  
 435 440 445  
 Gly Met Ile Lys Glu Cys Asp Glu Ser Gly Phe Pro Lys His Leu Leu  
 450 455 460  
 Phe Arg Ser Leu Gly Leu Asn Leu Ala Leu Ala Asp Pro Pro Glu Ser  
 465 470 475 480  
 Asp Arg Leu Gln Ile Leu Asn Glu Ala Trp Lys Val Ile Thr Lys Leu  
 485 490 495  
 Lys Asn Pro Gln Asp Tyr Ile Asn Cys Ala Glu Val Trp Val Glu Tyr  
 500 505 510  
 Thr Cys Lys His Phe Thr Lys Arg Glu Val Asn Thr Val Leu Ala Asp  
 515 520 525  
 Val Ile Lys His Met Thr Pro Asp Arg Ala Phe Glu Asp Ser Tyr Pro  
 530 535 540  
 Gln Leu Gln Leu Ile Ile Lys Lys Val Ile Ala His Phe His Asp Phe  
 545 550 555 560  
 Ser Val Leu Phe Ser Val Glu Lys Phe Leu Pro Phe Leu Asp Met Phe  
 565 570 575  
 Gln Lys Glu Ser Val Arg Val Glu Val Cys Lys Cys Ile Met Asp Ala  
 580 585 590  
 Phe Ile Lys His Gln Gln Glu Pro Thr Lys Asp Pro Val Ile Leu Asn  
 595 600 605  
 Ala Leu Leu His Val Cys Lys Thr Met His Asp Ser Val Asn Ala Leu  
 610 615 620  
 Thr Leu Glu Asp Glu Lys Arg Met Leu Ser Tyr Leu Ile Asn Gly Phe  
 625 630 635 640  
 Ile Lys Met Val Ser Phe Gly Arg Asp Phe Glu Gln Gln Leu Ser Phe  
 645 650 655  
 Tyr Val Glu Ser Arg Ser Met Phe Cys Asn Leu Glu Pro Val Leu Val  
 660 665 670  
 Gln Leu Ile His Ser Val Asn Arg Leu Ala Met Glu Thr Arg Lys Val  
 675 680 685  
 Met Lys Gly Asn His Ser Arg Lys Thr Ala Ala Phe Val Arg Ala Cys  
 690 695 700  
 Val Ala Tyr Cys Phe Ile Thr Ile Pro Ser Leu Ala Gly Ile Phe Thr  
 705 710 715 720  
 Arg Leu Asn Leu Tyr Leu His Ser Gly Gln Val Ala Leu Ala Asn Gln  
 725 730 735  
 Cys Leu Ser Gln Ala Asp Ala Phe Phe Lys Ala Ala Ile Ser Leu Val  
 740 745 750  
 Pro Glu Val Pro Lys Met Ile Asn Ile Asp Gly Lys Met Arg Pro Ser  
 755 760 765  
 Glu Ser Phe Leu Leu Glu Phe Leu Cys Asn Phe Phe Ser Thr Leu Leu  
 770 775 780  
 Ile Val Pro Asp His Pro Glu His Gly Val Leu Phe Leu Val Arg Glu  
 785 790 795 800  
 Leu Leu Asn Val Ile Gln Asp Tyr Thr Trp Glu Asp Asn Ser Asp Glu  
 805 810 815  
 Lys Ile Arg Ile Tyr Thr Cys Val Leu His Leu Leu Ser Ala Met Ser

820  
 Gln Glu Thr Tyr Leu Tyr His Ile Asp Lys Val Asp Ser Asn Asp Ser  
 835  
 Leu Tyr Gly Gly Asp Ser Lys Phe Leu Ala Glu Asn Asn Lys Leu Cys  
 850  
 Glu Thr Val Met Ala Gln Ile Leu Glu His Leu Lys Thr Leu Ala Lys  
 865  
 Asp Glu Ala Leu Lys Arg Gln Ser Ser Leu Gly Leu Ser Phe Phe Asn  
 885  
 Ser Ile Leu Ala His Gly Asp Leu Arg Asn Asn Lys Leu Asn Gln Leu  
 900  
 Ser Val Asn Leu Trp His Leu Ala Gln Arg His Gly Cys Ala Asp Thr  
 915  
 Arg Thr Met Val Lys Thr Leu Glu Tyr Ile Lys Lys Gln Ser Lys Gln  
 930  
 Pro Asp Met Thr His Leu Thr Glu Leu Ala Leu Arg Leu Pro Leu Gln  
 945  
 Thr Arg Thr 950 955 960

<210> 195  
 <211> 494  
 <212> PRT  
 <213> Homo sapiens  
 <400> 195

Met Phe Glu Ile Lys Lys Ile Cys Cys Ile Gly Ala Gly Tyr Val Gly  
 1 5 10  
 Gly Pro Thr Cys Ser Val Ile Ala His Met Cys Pro Glu Ile Arg Val  
 20 25 30  
 Thr Val Val Asp Val Asn Glu Ser Arg Ile Asn Ala Trp Asn Ser Pro  
 35 40 45  
 Thr Leu Pro Ile Tyr Glu Pro Gly Leu Lys Glu Val Val Glu Ser Cys  
 50 55 60  
 Arg Gly Lys Asn Leu Phe Ser Thr Asn Ile Asp Asp Ala Ile Lys  
 65 70 75 80  
 Glu Ala Asp Leu Val Phe Ile Ser Val Asn Thr Pro Thr Lys Thr Tyr  
 85 90 95  
 Gly Met Gly Lys Gly Arg Ala Ala Asp Leu Lys Tyr Ile Glu Ala Cys  
 100 105 110  
 Ala Arg Arg Ile Val Gln Asn Ser Asn Gly Tyr Lys Ile Val Thr Glu  
 115 120 125  
 Lys Ser Thr Val Pro Val Arg Ala Ala Glu Ser Ile Arg Arg Ile Phe  
 130 135 140  
 Asp Ala Asn Thr Lys Pro Asn Leu Asn Leu Gln Val Leu Ser Asn Pro  
 145 150 155 160  
 Glu Phe Leu Ala Glu Gly Thr Ala Ile Lys Asp Leu Lys Asn Pro Asp  
 165 170 175  
 Arg Val Leu Ile Gly Gly Asp Glu Thr Pro Glu Gly Gln Arg Ala Val  
 180 185 190  
 Gln Ala Leu Cys Ala Val Tyr Glu His Trp Val Pro Arg Glu Lys Ile  
 195 200 205  
 Leu Thr Thr Asn Thr Trp Ser Ser Glu Leu Ser Lys Leu Ala Ala Asn  
 210 215 220  
 Ala Phe Leu Ala Gln Arg Ile Ser Ser Ile Asn Ser Ile Ser Ala Leu  
 225 230 235 240  
 Cys Glu Ala Thr Gly Ala Asp Val Glu Glu Val Ala Thr Ala Ile Gly  
 245 250 255  
 Met Asp Gln Arg Ile Gly Asn Lys Phe Leu Lys Ala Ser Val Gly Phe  
 260 265 270  
 Gly Gly Ser Cys Phe Gln Lys Asp Val Leu Asn Leu Val Tyr Leu Cys  
 275 280 285  
 Glu Ala Leu Asn Leu Pro Glu Val Ala Arg Tyr Trp Gln Gln Val Ile  
 290 295 300  
 Asp Met Asn Asp Tyr Gln Arg Arg Arg Phe Ala Ser Arg Ile Ile Asp  
 305 310 315 320  
 Ser Leu Phe Asn Thr Val Thr Asp Lys Lys Ile Ala Ile Leu Gly Phe  
 325 330 335  
 Ala Phe Lys Lys Asp Thr Gly Asp Thr Arg Glu Ser Ser Ser Ile Tyr  
 340 345 350

Ile Ser Lys Tyr Leu Met Asp Glu Gly Ala His Leu His Ile Tyr Asp  
 355 360 365  
 Pro Lys Val Pro Arg Glu Gln Ile Val Val Asp Leu Ser His Pro Gly  
 370 375 380  
 Val Ser Glu Asp Asp Gln Val Ser Arg Leu Val Thr Ile Ser Lys Asp  
 385 390 395 400  
 Pro Tyr Glu Ala Cys Asp Gly Ala His Ala Val Val Ile Cys Thr Glu  
 405 410 415  
 Trp Asp Met Phe Lys Glu Leu Asp Tyr Glu Arg Ile His Lys Lys Met  
 420 425 430  
 Leu Lys Pro Ala Phe Ile Phe Asp Gly Arg Arg Val Leu Asp Gly Leu  
 435 440 445  
 His Asn Glu Leu Gln Thr Ile Gly Phe Gln Ile Glu Thr Ile Gly Lys  
 450 455 460  
 Lys Val Ser Ser Lys Arg Ile Pro Tyr Ala Pro Ser Gly Glu Ile Pro  
 465 470 475 480  
 Lys Phe Ser Leu Gln Asp Pro Pro Asn Lys Lys Pro Lys Val  
 485 490

<210> 196  
 <211> 205  
 <212> PRT  
 <213> Homo sapiens  
 <400> 196

Met Ala Leu Gln Leu Ser Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser  
 1 5 10 15  
 Ala Glu Ile Val Ala Glu Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu  
 20 25 30  
 Tyr Gln Arg Gly Ile Tyr Pro Ser Glu Thr Phe Thr Arg Val Gln Lys  
 35 40 45  
 Tyr Gly Leu Thr Leu Leu Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr  
 50 55 60  
 Leu Asn Asn Val Val Glu Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser  
 65 70 75 80  
 Val Gln Lys Leu Val Val Val Ile Ser Asn Ile Glu Ser Gly Glu Val  
 85 90 95  
 Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp  
 100 105 110  
 Asp Ser Ala Pro Arg Glu Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile  
 115 120 125  
 Arg Ser Val Ile Arg Gln Ile Thr Ala Thr Val Thr Phe Leu Pro Leu  
 130 135 140  
 Leu Glu Val Ser Cys Ser Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp  
 145 150 155 160  
 Leu Val Val Pro Glu Lys Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr  
 165 170 175  
 Asn Ser Glu Glu Val Arg Leu Arg Ser Phe Thr Thr Thr Ile His Lys  
 180 185 190  
 Val Asn Ser Met Val Ala Tyr Lys Ile Pro Val Asn Asp  
 195 200 205

<210> 197  
 <211> 427  
 <212> PRT  
 <213> Homo sapiens  
 <400> 197

Met Ala Pro Lys Lys Arg Pro Glu Thr Gln Lys Thr Ser Glu Ile Val  
 1 5 10 15  
 Leu Arg Pro Arg Asn Lys Arg Ser Arg Ser Pro Leu Glu Leu Glu Pro  
 20 25 30  
 Glu Ala Lys Lys Leu Cys Ala Lys Gly Ser Gly Pro Ser Arg Arg Cys  
 35 40 45  
 Asp Ser Asp Cys Leu Trp Val Gly Leu Ala Gly Pro Gln Ile Leu Pro  
 50 55 60  
 Pro Cys Arg Ser Ile Val Arg Thr Leu His Gln His Lys Leu Gly Arg  
 65 70 75 80  
 Ala Ser Trp Pro Ser Val Gln Gln Gly Leu Gln Gln Ser Phe Leu His  
 85 90 95  
 Thr Leu Asp Ser Tyr Arg Ile Leu Gln Lys Ala Ala Pro Phe Asp Arg

100 105 110  
 Arg Ala Thr Ser Leu Ala Trp His Pro Thr His Pro Ser Thr Val Ala  
 115 120 125  
 Val Gly Ser Lys Gly Gly Asp Ile Met Leu Trp Asn Phe Gly Ile Lys  
 130 135 140  
 Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala Gly Gly Ser Ile Thr  
 145 150 155  
 Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln Phe Tyr Ala Ser Ser  
 165 170 175  
 Met Glu Gly Thr Arg Leu Gln Asp Phe Lys Gly Asn Ile Leu Arg  
 180 185 190  
 Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp Phe Cys Ser Leu Asp  
 195 200 205  
 Val Ser Ala Ser Ser Arg Met Val Val Thr Gly Asp Asn Val Gly Asn  
 210 215 220  
 Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu Trp Asn Leu Arg Met  
 225 230 235  
 His Lys Lys Lys Val Thr His Val Ala Leu Asn Pro Cys Cys Asp Trp  
 245 250 255  
 Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val Lys Ile Trp Asp Leu  
 260 265 270  
 Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr Ser Leu Pro His Arg  
 275 280 285  
 His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp Gly Ala Arg Leu Leu  
 290 295 300  
 Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr Ser Ala Ser Gln Trp  
 305 310 315  
 Asp Cys Pro Leu Gly Leu Ile Pro His Pro His Arg His Phe Gln His  
 325 330 335  
 Leu Thr Pro Ile Lys Ala Ala Trp His Pro Arg Tyr Asn Leu Ile Val  
 340 345 350  
 Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser Cys Thr Pro Tyr Glu  
 355 360 365  
 Leu Arg Thr Ile Asp Val Phe Asp Gly Asn Ser Gly Lys Met Met Cys  
 370 375 380  
 Gln Leu Tyr Asp Pro Glu Ser Ser Gly Ile Ser Ser Leu Asn Glu Phe  
 385 390 395  
 Asn Pro Met Gly Asp Thr Leu Ala Ser Ala Met Gly Tyr His Ile Leu  
 405 410 415  
 Ile Trp Ser Gln Glu Glu Ala Arg Thr Arg Lys  
 420 425

<210> 198  
 <211> 283  
 <212> PRT  
 <213> Homo sapiens  
 <400> 198

Met Glu His Gly Ser Ile Ile Thr Gln Ala Arg Arg Glu Asp Ala Leu  
 1 5 10 15  
 Val Leu Thr Lys Gln Gly Leu Val Ser Lys Ser Ser Pro Lys Lys Pro  
 20 25 30  
 Arg Gly Arg Asn Ile Phe Lys Ala Leu Phe Cys Cys Phe Arg Ala Gln  
 35 40 45  
 His Val Gly Gln Ser Ser Ser Thr Glu Leu Ala Ala Tyr Lys Glu  
 50 55 60  
 Glu Ala Asn Thr Ile Ala Lys Ser Asp Leu Leu Gln Cys Leu Gln Tyr  
 65 70 75 80  
 Gln Phe Tyr Gln Ile Pro Gly Thr Cys Leu Leu Pro Glu Val Thr Glu  
 85 90 95  
 Glu Asp Gln Gly Arg Ile Cys Val Val Ile Asp Leu Asp Glu Thr Leu  
 100 105 110  
 Val His Ser Ser Phe Lys Pro Ile Asn Asn Ala Asp Phe Ile Val Pro  
 115 120 125  
 Ile Glu Ile Glu Gly Thr Thr His Gln Val Tyr Val Leu Lys Arg Pro  
 130 135 140  
 Tyr Val Asp Glu Phe Leu Arg Arg Met Gly Glu Leu Phe Glu Cys Val  
 145 150 155 160  
 Leu Phe Thr Ala Ser Leu Ala Lys Tyr Ala Asp Pro Val Thr Asp Leu  
 165 170 175

Leu Asp Arg Cys Gly Val Phe Arg Ala Arg Leu Phe Arg Glu Ser Cys  
 180 185 190  
 Val Phe His Gln Gly Cys Tyr Val Lys Asp Leu Ser Arg Leu Gly Arg  
 195 200 205  
 Asp Leu Arg Lys Thr Leu Ile Leu Asp Asn Ser Pro Ala Ser Tyr Ile  
 210 215 220  
 Phe His Pro Glu Asn Ala Val Pro Val Gln Ser Trp Phe Asp Asp Met  
 225 230 235 240  
 Ala Asp Thr Glu Leu Leu Asn Leu Ile Pro Ile Phe Glu Glu Leu Ser  
 245 250 255  
 Gly Ala Glu Asp Val Tyr Thr Ser Leu Gly Ala Ala Ala Gly Pro Leu  
 260 265 270  
 Ala Cys Pro Ala Ser Lys Arg Arg Pro Ser Gln  
 275 280

<210> 199  
 <211> 239  
 <212> PRT  
 <213> Homo sapiens  
 <400> 199

Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met  
 1 5 10 15  
 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala  
 20 25 30  
 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile  
 35 40 45  
 Phe Ser Ser Gln Pro Gly His Thr Pro His Thr Ala Ala Ser Arg Asp  
 50 55 60  
 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala  
 65 70 75 80  
 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr  
 85 90 95  
 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe  
 100 105 110  
 Ala Glu Met Ser Arg Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly  
 115 120 125  
 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp  
 130 135 140  
 Gly Arg Ile Val Ala Phe Glu Phe Gly Gly Val Met Cys Val Glu  
 145 150 155 160  
 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp  
 165 170 175  
 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn  
 180 185 190  
 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro  
 195 200 205  
 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala  
 210 215 220  
 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys  
 225 230 235

<210> 200  
 <211> 751  
 <212> PRT  
 <213> Homo sapiens  
 <400> 200

Met Ala Phe Arg Thr Ile Cys Val Leu Val Gly Val Phe Ile Cys Ser  
 1 5 10 15  
 Ile Cys Val Lys Gly Ser Ser Gln Pro Gln Ala Arg Val Tyr Leu Thr  
 20 25 30  
 Phe Asp Glu Leu Arg Glu Thr Lys Thr Ser Glu Tyr Phe Ser Leu Ser  
 35 40 45  
 His His Pro Leu Asp Tyr Arg Ile Leu Leu Met Asp Glu Asp Gln Asp  
 50 55 60  
 Arg Ile Tyr Val Gly Ser Lys Asp His Ile Leu Ser Leu Asn Ile Asn  
 65 70 75 80  
 Asn Ile Ser Gln Glu Ala Leu Ser Val Phe Trp Pro Ala Ser Thr Ile  
 85 90 95  
 Lys Val Glu Glu Cys Lys Met Ala Gly Lys Asp Pro Thr His Gly Cys

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Ile Asn Phe Lys Val Leu Asp Ser Glu Met Val Ala Val Val Thr Asp  
 660 665 670  
 Lys Trp Ser Pro Trp Thr Trp Ala Ser Ser Val Arg Ala Leu Pro Phe  
 675 680 685  
 His Pro Lys Asp Ile Met Gly Ala Phe Ser His Ser Glu Met Gln Met  
 690 695 700  
 Ile Asn Gln Tyr Cys Lys Asp Thr Arg Gln Gln His Gln Gln Gly Asp  
 705 710 715 720  
 Glu Ser Gln Lys Met Arg Gly Asp Tyr Gly Lys Leu Lys Ala Leu Ile  
 725 730 735  
 Asn Ser Arg Lys Ser Arg Asn Arg Arg Asn Gln Leu Pro Glu Ser  
 740 745 750

<210> 201  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens  
 <400> 201

Met Lys Leu Leu Pro Ser Val Val Leu Lys Leu Phe Leu Ala Ala Val  
 1 5 10 15  
 Leu Ser Ala Leu Val Thr Gly Glu Ser Leu Glu Arg Leu Arg Arg Gly  
 20 25 30  
 Leu Ala Ala Gly Thr Ser Asn Pro Asp Pro Pro Thr Val Ser Thr Asp  
 35 40 45  
 Gln Leu Leu Pro Leu Gly Gly Arg Asp Arg Lys Val Arg Asp Leu  
 50 55 60  
 Gln Glu Ala Asp Leu Asp Leu Leu Arg Val Thr Leu Ser Ser Lys Pro  
 65 70 75 80  
 Gln Ala Leu Ala Thr Pro Asn Lys Glu Glu His Gly Lys Arg Lys Lys  
 85 90 95  
 Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr  
 100 105 110  
 Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg  
 115 120 125  
 Ala Pro Ser Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His  
 130 135 140  
 Gly Leu Ser Leu Pro Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr  
 145 150 155 160  
 Thr Ile Leu Ala Val Val Ala Val Val Leu Ser Ser Val Cys Leu Leu  
 165 170 175  
 Val Ile Val Gly Leu Leu Met Phe Arg Tyr His Arg Arg Gly Gly Tyr  
 180 185 190  
 Asp Val Glu Asn Glu Glu Lys Val Lys Leu Gly Met Thr Asn Ser His  
 195 200 205

<210> 202  
 <211> 662  
 <212> PRT  
 <213> Homo sapiens  
 <400> 202

Met Arg Pro Gln Ile Leu Leu Leu Leu Ala Leu Leu Thr Leu Gly Leu  
 1 5 10 15  
 Ala Ala Gln His Gln Asp Lys Val Pro Cys Lys Met Val Asp Lys Lys  
 20 25 30  
 Val Ser Cys Gln Val Leu Gly Leu Leu Gln Val Pro Ser Val Leu Pro  
 35 40 45  
 Pro Asp Thr Glu Thr Leu Asp Leu Ser Gly Asn Gln Leu Arg Ser Ile  
 50 55 60  
 Leu Ala Ser Pro Leu Gly Phe Tyr Thr Ala Leu Arg His Leu Asp Leu  
 65 70 75 80  
 Ser Thr Asn Glu Ile Ser Phe Leu Gln Pro Gly Ala Phe Gln Ala Leu  
 85 90 95  
 Thr His Leu Glu His Leu Ser Leu Ala His Asn Arg Leu Ala Met Ala  
 100 105 110  
 Thr Ala Leu Ser Ala Gly Gly Leu Gly Pro Leu Pro Arg Val Thr Ser  
 115 120 125  
 Leu Asp Leu Ser Gly Asn Ser Leu Tyr Ser Gly Leu Leu Glu Arg Leu  
 130 135 140  
 Leu Gly Glu Ala Pro Ser Leu His Thr Leu Ser Leu Ala Glu Asn Ser

<210>	203
<211>	1036
<212>	PRT

<213> Homo sapiens  
 <400> 203  
 Met Gln Pro Glu Glu Gly Thr Gly Trp Leu Leu Glu Leu Leu Ser Glu  
 1 5 10 15  
 Val Gln Leu Gln Gln Tyr Phe Leu Arg Leu Arg Asp Asp Leu Asn Val  
 20 25 30  
 Thr Arg Leu Ser His Phe Glu Tyr Val Lys Asn Glu Asp Leu Glu Lys  
 35 40 45  
 Ile Gly Met Gly Arg Pro Gly Gln Arg Arg Leu Trp Glu Ala Val Lys  
 50 55 60  
 Arg Arg Lys Ala Leu Cys Lys Arg Lys Ser Trp Met Ser Lys Val Phe  
 65 70 75 80  
 Ser Gly Lys Arg Leu Glu Ala Glu Phe Pro Pro His His Ser Gln Ser  
 85 90 95  
 Thr Phe Arg Lys Thr Ser Pro Ala Pro Gly Gly Pro Ala Gly Glu Gly  
 100 105 110  
 Pro Leu Gln Ser Leu Thr Cys Leu Ile Gly Glu Lys Asp Leu Arg Leu  
 115 120 125  
 Leu Glu Lys Leu Gly Asp Gly Ser Phe Gly Val Val Arg Arg Gly Glu  
 130 135 140  
 Trp Asp Ala Pro Ser Gly Lys Thr Val Ser Val Ala Val Lys Cys Leu  
 145 150 155 160  
 Lys Pro Asp Val Leu Ser Gln Pro Glu Ala Met Asp Asp Phe Ile Arg  
 165 170 175  
 Glu Val Asn Ala Met His Ser Leu Asp His Arg Asn Leu Ile Arg Leu  
 180 185 190  
 Tyr Gly Val Val Leu Thr Pro Pro Met Lys Met Val Thr Glu Leu Ala  
 195 200 205  
 Pro Leu Gly Ser Leu Leu Asp Arg Leu Arg Lys His Gln Gly His Phe  
 210 215 220  
 Leu Leu Gly Thr Leu Ser Arg Tyr Ala Val Gln Val Ala Glu Gly Met  
 225 230 235 240  
 Gly Tyr Leu Glu Ser Lys Arg Phe Ile His Arg Asp Leu Ala Ala Arg  
 245 250 255  
 Asn Leu Leu Leu Ala Thr Arg Asp Leu Val Lys Ile Gly Asp Phe Gly  
 260 265 270  
 Leu Met Arg Ala Leu Pro Gln Asn Asp Asp His Tyr Val Met Gln Glu  
 275 280 285  
 His Arg Lys Val Pro Phe Ala Trp Cys Ala Pro Glu Ser Leu Lys Thr  
 290 295 300  
 Arg Thr Phe Ser His Ala Ser Asp Thr Trp Met Phe Gly Val Thr Leu  
 305 310 315 320  
 Trp Glu Met Phe Thr Tyr Gly Gln Glu Pro Trp Ile Gly Leu Asn Gly  
 325 330 335  
 Ser Gln Ile Leu His Lys Ile Asp Lys Glu Gly Glu Arg Leu Pro Arg  
 340 345 350  
 Pro Glu Asp Cys Pro Gln Asp Ile Tyr Asn Val Met Val Gln Cys Trp  
 355 360 365  
 Ala His Lys Pro Glu Asp Arg Pro Thr Phe Val Ala Leu Arg Asp Phe  
 370 375 380  
 Leu Leu Glu Ala Gln Pro Thr Asp Met Arg Ala Leu Gln Asp Phe Glu  
 385 390 395 400  
 Glu Pro Asp Lys Leu His Ile Gln Met Asn Asp Val Ile Thr Val Ile  
 405 410 415  
 Glu Gly Arg Ala Glu Asn Tyr Trp Trp Arg Gly Gln Asn Thr Arg Thr  
 420 425 430  
 Leu Cys Val Gly Pro Phe Pro Arg Asn Val Val Thr Ser Val Ala Gly  
 435 440 445  
 Leu Ser Ala Gln Asp Ile Ser Gln Pro Leu Gln Asn Ser Phe Ile His  
 450 455 460  
 Thr Gly His Gly Asp Ser Asp Pro Arg His Cys Trp Gly Phe Pro Asp  
 465 470 475 480  
 Arg Ile Asp Glu Leu Tyr Leu Gly Asn Pro Met Asp Pro Pro Asp Leu  
 485 490 495  
 Leu Ser Val Glu Leu Ser Thr Ser Arg Pro Pro Gln His Leu Gly Gly  
 500 505 510  
 Val Lys Lys Pro Thr Tyr Asp Pro Val Ser Glu Asp Gln Asp Pro Leu  
 515 520 525  
 Ser Ser Asp Phe Lys Arg Leu Gly Leu Arg Lys Pro Gly Leu Pro Arg

530  
 Gly Leu Trp Leu Ala Lys Pro Ser Ala Arg Val 540  
 545 Ser Arg Gly Ser Gly Ala Glu Val Thr Leu Ile Asp Phe Gly Glu 560  
 565 Pro Val Val Pro Ala Leu Arg Pro Cys Pro Pro Ser Leu Ala Gln Leu 575  
 580 Ala Met Asp Ala Cys Ser Leu Leu Asp Glu Thr Pro Pro Gln Ser Pro 590  
 595 Thr Arg Ala Leu Pro Arg Pro Leu His Pro Thr Pro Val Val Asp Trp 605  
 610 Asp Ala Arg Pro Leu Pro Pro Pro Pro Ala Tyr Asp Asp Val Ala Gln 620  
 625 Asp Glu Asp Asp Phe Glu Ile Cys Ser Ile Asn Ser Thr Leu Val Gly 635  
 645 Ala Gly Val Pro Ala Gly Pro Ser Gln Gly Gln Thr Asn Tyr Ala Phe 655  
 660 Val Pro Glu Gln Ala Arg Pro Pro Pro Pro Leu Glu Asp Asn Leu Phe 670  
 675 Leu Pro Pro Gln Gly Gly Gly Lys Pro Pro Ser Ser Ala Gln Thr Ala 685  
 690 Glu Ile Phe Gln Ala Leu Gln Gln Glu Cys Met Arg Gln Leu Gln Ala 700  
 705 Pro Gly Ser Pro Ala Pro Ser Pro Ser Pro Gly Gly Asp Asp Lys Pro 715  
 725 Gln Val Pro Pro Arg Val Pro Ile Pro Pro Arg Pro Thr Arg Pro His 735  
 740 Val Gln Leu Ser Pro Ala Pro Pro Gly Glu Glu Glu Thr Ser Gln Trp 750  
 755 Pro Gly Pro Ala Ser Pro Pro Arg Val Pro Pro Arg Glu Pro Leu Ser 765  
 770 Pro Gln Gly Ser Arg Thr Pro Ser Pro Leu Val Pro Pro Gly Ser Ser 780  
 785 Pro Leu Pro Pro Arg Leu Ser Ser Ser Pro Gly Lys Thr Met Pro Thr 795  
 805 Thr Gln Ser Phe Ala Ser Asp Pro Lys Tyr Ala Thr Pro Gln Val Ile 815  
 820 Gln Ala Pro Gly Ala Gly Gly Pro Cys Ile Leu Pro Ile Val Arg Asp 830  
 835 Gly Lys Lys Val Ser Ser Thr His Tyr Tyr Leu Leu Pro Glu Arg Pro 845  
 850 Ser Tyr Leu Glu Arg Tyr Gln Arg Phe Leu Arg Glu Ala Gln Ser Pro 860  
 865 Glu Glu Pro Thr Pro Leu Pro Val Pro Leu Leu Leu Pro Pro Pro Ser 875  
 885 Thr Pro Ala Pro Ala Ala Pro Thr Ala Thr Val Arg Pro Met Pro Gln 890  
 900 Ala Ala Leu Asp Pro Lys Ala Asn Phe Ser Thr Asn Asn Ser Asn Pro 910  
 915 Gly Ala Arg Pro Pro Pro Pro Arg Ala Thr Ala Arg Leu Pro Gln Arg 925  
 930 Gly Cys Pro Gly Asp Gly Pro Glu Ala Gly Arg Pro Ala Asp Lys Ile 940  
 945 Gln Met Ala Met Val His Gly Val Thr Thr Glu Glu Cys Gln Ala Ala 955  
 965 Leu Gln Cys His Gly Trp Ser Val Gln Arg Ala Ala Gln Tyr Leu Lys 970  
 980 Val Glu Gln Leu Phe Gly Leu Gly Leu Arg Pro Arg Gly Glu Cys His 985  
 995 Lys Val Leu Glu Met Phe Asp Trp Asn Leu Glu Gln Ala Gly Cys 1000  
 1010 His Leu Leu Gly Ser Trp Gly Pro Ala His His Lys Arg 1015  
 1025 1030 1035

<210> 204  
 <211> 364  
 <212> PRT  
 <213> Homo sapiens  
 <400> 204

Met Ala Ala Ile Ser Thr Ser Ile Pro Val Ile Ser Gln Pro Gln Phe  
 1 5 10 15  
 Thr Ala Met Asn Glu Pro Gln Cys Phe Tyr Asn Glu Ser Ile Ala Phe  
 20 25 30  
 Phe Tyr Asn Arg Ser Gly Lys His Leu Ala Thr Glu Trp Asn Thr Val  
 35 40 45  
 Ser Lys Leu Val Met Gly Leu Gly Ile Thr Val Cys Ile Phe Ile Met  
 50 55 60  
 Leu Ala Asn Leu Leu Val Met Val Ala Ile Tyr Val Asn Arg Arg Phe  
 65 70 75 80  
 His Phe Pro Ile Tyr Tyr Leu Met Ala Asn Leu Ala Ala Ala Asp Phe  
 85 90 95  
 Phe Ala Gly Leu Ala Tyr Phe Tyr Leu Met Phe Asn Thr Gly Pro Asn  
 100 105 110  
 Thr Arg Arg Leu Thr Val Ser Thr Trp Leu Leu Arg Gln Gly Leu Ile  
 115 120 125  
 Asp Thr Ser Leu Thr Ala Ser Val Ala Asn Leu Leu Ala Ile Ala Ile  
 130 135 140  
 Glu Arg His Ile Thr Val Phe Arg Met Gln Leu His Thr Arg Met Ser  
 145 150 155 160  
 Asn Arg Arg Val Val Val Val Ile Val Val Ile Trp Thr Met Ala Ile  
 165 170 175  
 Val Met Gly Ala Ile Pro Ser Val Gly Trp Asn Cys Ile Cys Asp Ile  
 180 185 190  
 Glu Asn Cys Ser Asn Met Ala Pro Leu Tyr Ser Asp Ser Tyr Leu Val  
 195 200 205  
 Phe Trp Ala Ile Phe Asn Leu Val Thr Phe Val Val Met Val Val Leu  
 210 215 220  
 Tyr Ala His Ile Phe Gly Tyr Val Arg Gln Arg Thr Met Arg Met Ser  
 225 230 235 240  
 Arg His Ser Ser Gly Pro Arg Arg Asn Arg Asp Thr Met Met Ser Leu  
 245 250 255  
 Leu Lys Thr Val Val Ile Val Leu Gly Ala Phe Ile Ile Cys Trp Thr  
 260 265 270  
 Pro Gly Leu Val Leu Leu Leu Leu Asp Val Cys Cys Pro Gln Cys Asp  
 275 280 285  
 Val Leu Ala Tyr Glu Lys Phe Phe Leu Leu Leu Ala Glu Phe Asn Ser  
 290 295 300  
 Ala Met Asn Pro Ile Ile Tyr Ser Tyr Arg Asp Lys Glu Met Ser Ala  
 305 310 315 320  
 Thr Phe Arg Gln Ile Leu Cys Cys Gln Arg Ser Glu Asn Pro Thr Gly  
 325 330 335  
 Pro Thr Glu Gly Ser Asp Arg Ser Ala Ser Ser Leu Asn His Thr Ile  
 340 345 350  
 Leu Ala Gly Val His Ser Asn Asp His Ser Val Val  
 355 360

&lt;210&gt; 205

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 205

Met Ala Ser Pro His Gln Glu Pro Lys Pro Gly Asp Leu Ile Glu Ile  
 1 5 10 15  
 Phe Arg Leu Gly Tyr Glu His Trp Ala Leu Tyr Ile Gly Asp Gly Tyr  
 20 25 30  
 Val Ile His Leu Ala Pro Pro Ser Glu Tyr Pro Gly Ala Gly Ser Ser  
 35 40 45  
 Ser Val Phe Ser Val Leu Ser Asn Ser Ala Glu Val Lys Arg Gly Arg  
 50 55 60  
 Leu Glu Asp Val Val Gly Gly Cys Cys Tyr Arg Val Asn Asn Ser Leu  
 65 70 75 80  
 Asp His Glu Tyr Gln Pro Arg Pro Val Glu Val Ile Ile Ser Ser Ala  
 85 90 95  
 Lys Glu Met Val Gly Gln Lys Met Lys Tyr Ser Ile Val Ser Arg Asn  
 100 105 110  
 Cys Glu His Phe Val Ala Gln Leu Arg Tyr Gly Lys Ser Arg Cys Lys  
 115 120 125  
 Gln Val Glu Lys Ala Lys Val Glu Val Gly Val Ala Thr Ala Leu Gly

130  
 Ile Leu Val Val Ala Gly 135  
 145 Cys Ser Phe Ala Ile 140  
 Lys Ala Thr Ala 150 Arg Arg Tyr Gln Lys 160

<210> 206  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens  
 <400> 206

Met Tyr His Asn Ser Ser Gln Lys Arg His Trp Thr Phe Ser Ser Glu  
 1 5 10 15  
 Glu Gln Leu Ala Arg Leu Arg Ala Asp Ala Asn Arg Lys Phe Arg Cys  
 20 25 30  
 Lys Ala Val Ala Asn Gly Lys Val Leu Pro Asn Asp Pro Val Phe Leu  
 35 40 45  
 Glu Pro His Glu Glu Met Thr Leu Cys Lys Tyr Tyr Glu Lys Arg Leu  
 50 55 60  
 Leu Glu Phe Cys Ser Val Phe Lys Pro Ala Met Pro Arg Ser Val Val  
 65 70 75 80  
 Gly Thr Ala Cys Met Tyr Phe Lys Arg Phe Tyr Leu Asn Asn Ser Val  
 85 90 95  
 Met Glu Tyr His Pro Arg Ile Ile Met Leu Thr Cys Ala Phe Leu Ala  
 100 105 110  
 Cys Lys Val Asp Glu Phe Asn Val Ser Ser Pro Gln Phe Val Gly Asn  
 115 120 125  
 Leu Arg Glu Ser Pro Leu Gly Gln Glu Lys Ala Leu Glu Gln Ile Leu  
 130 135 140  
 Glu Tyr Glu Leu Leu Ile Gln Gln Leu Asn Phe His Leu Ile Val  
 145 150 155 160  
 His Asn Pro Tyr Arg Pro Phe Glu Gly Phe Leu Ile Asp Leu Lys Thr  
 165 170 175  
 Arg Tyr Pro Ile Leu Glu Asn Pro Glu Ile Leu Arg Lys Thr Ala Asp  
 180 185 190  
 Asp Phe Leu Asn Arg Ile Ala Leu Thr Asp Ala Tyr Leu Leu Tyr Thr  
 195 200 205  
 Pro Ser Gln Ile Ala Leu Thr Ala Ile Leu Ser Ser Ala Ser Arg Ala  
 210 215 220  
 Gly Ile Thr Met Glu Ser Tyr Leu Ser Glu Ser Leu Met Leu Lys Glu  
 225 230 235 240  
 Asn Arg Thr Cys Leu Ser Gln Leu Leu Asp Ile Met Lys Ser Met Arg  
 245 250 255  
 Asn Leu Val Lys Lys Tyr Glu Pro Pro Arg Ser Glu Glu Val Ala Val  
 260 265 270  
 Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala Leu Asn  
 275 280 285  
 Val Ile Thr Lys Lys Arg Lys Gly Tyr Glu Asp Asp Tyr Val Ser  
 290 295 300  
 Lys Lys Ser Lys His Glu Glu Glu Trp Thr Asp Asp Asp Leu Val  
 305 310 315 320  
 Glu Ser Leu

<210> 207  
 <211> 710  
 <212> PRT  
 <213> Homo sapiens  
 <400> 207

Met Leu Ser Phe Gln Tyr Pro Asp Val Tyr Arg Asp Glu Thr Ala Val  
 1 5 10 15  
 Gln Asp Tyr His Gly His Lys Ile Cys Asp Pro Tyr Ala Trp Leu Glu  
 20 25 30  
 Asp Pro Asp Ser Glu Gln Thr Lys Ala Phe Val Glu Ala Gln Asn Lys  
 35 40 45  
 Ile Thr Val Pro Phe Leu Glu Gln Cys Pro Ile Arg Gly Leu Tyr Lys  
 50 55 60  
 Glu Arg Met Thr Glu Leu Tyr Asp Tyr Pro Lys Tyr Ser Cys His Phe  
 65 70 75 80

Lys Lys Gly Lys Arg Tyr Phe Tyr Phe Tyr Asn Thr Gly Leu Gln Asn  
 85 90 95  
 Gln Arg Val Leu Tyr Val Gln Asp Ser Leu Glu Gly Glu Ala Arg Val  
 100 105 110  
 Phe Leu Asp Pro Asn Ile Leu Ser Asp Asp Gly Thr Val Ala Leu Arg  
 115 120 125  
 Gly Tyr Ala Phe Ser Glu Asp Gly Glu Tyr Phe Ala Tyr Gly Leu Ser  
 130 135 140  
 Ala Ser Gly Ser Asp Trp Val Thr Ile Lys Phe Met Lys Val Asp Gly  
 145 150 155 160  
 Ala Lys Glu Leu Pro Asp Val Leu Glu Arg Val Lys Phe Ser Cys Met  
 165 170 175  
 Ala Trp Thr His Asp Gly Lys Gly Met Phe Tyr Asn Ser Tyr Pro Gln  
 180 185 190  
 Gln Asp Gly Lys Ser Asp Gly Thr Glu Thr Ser Thr Asn Leu His Gln  
 195 200 205  
 Lys Leu Tyr Tyr His Val Leu Gly Thr Asp Gln Ser Glu Asp Ile Leu  
 210 215 220  
 Cys Ala Glu Phe Pro Asp Glu Pro Lys Trp Met Gly Gly Ala Glu Leu  
 225 230 235 240  
 Ser Asp Asp Gly Arg Tyr Val Leu Leu Ser Ile Arg Glu Gly Cys Asp  
 245 250 255  
 Pro Val Asn Arg Leu Trp Tyr Cys Asp Leu Gln Gln Glu Ser Ser Gly  
 260 265 270  
 Ile Ala Gly Ile Leu Lys Trp Val Lys Leu Ile Asp Asn Phe Glu Gly  
 275 280 285  
 Glu Tyr Asp Tyr Val Thr Asn Glu Gly Ala Val Phe Thr Phe Lys Thr  
 290 295 300  
 Asn Arg Gln Ser Pro Asn Tyr Arg Val Ile Asn Ile Asp Phe Arg Asp  
 305 310 315 320  
 Pro Glu Glu Ser Lys Trp Lys Val Leu Val Pro Glu His Glu Lys Asp  
 325 330 335  
 Val Leu Glu Trp Ile Ala Cys Val Arg Ser Asn Phe Leu Val Leu Cys  
 340 345 350  
 Tyr Leu His Asp Val Lys Asn Ile Leu Gln Leu His Asp Leu Thr Thr  
 355 360 365  
 Gly Ala Leu Leu Lys Thr Phe Pro Leu Asp Val Gly Ser Ile Val Gly  
 370 375 380  
 Tyr Ser Gly Gln Lys Lys Asp Thr Glu Ile Phe Tyr Gln Phe Thr Ser  
 385 390 395 400  
 Phe Leu Ser Pro Gly Ile Ile Tyr His Cys Asp Leu Thr Lys Glu Glu  
 405 410 415  
 Leu Glu Pro Arg Val Phe Arg Glu Val Thr Val Lys Gly Ile Asp Ala  
 420 425 430  
 Ser Asp Tyr Gln Thr Val Gln Ile Phe Tyr Pro Ser Lys Asp Gly Thr  
 435 440 445  
 Lys Ile Pro Met Phe Ile Val His Lys Lys Ser Ile Lys Leu Asp Gly  
 450 455 460  
 Ser His Pro Ala Phe Leu Tyr Gly Tyr Gly Gly Phe Asn Ile Ser Ile  
 465 470 475 480  
 Thr Pro Asn Tyr Ser Val Ser Arg Leu Ile Phe Val Arg His Met Gly  
 485 490 495  
 Gly Ile Leu Ala Val Ala Asn Ile Arg Gly Gly Gly Glu Tyr Gly Glu  
 500 505 510  
 Thr Trp His Lys Gly Gly Ile Leu Ala Asn Lys Gln Asn Cys Phe Asp  
 515 520 525  
 Asp Phe Gln Cys Ala Ala Glu Tyr Leu Ile Lys Glu Gly Tyr Thr Ser  
 530 535 540  
 Pro Lys Arg Leu Thr Ile Asn Gly Gly Ser Asn Gly Gly Leu Leu Val  
 545 550 555 560  
 Ala Ala Cys Ala Asn Gln Arg Pro Asp Leu Phe Gly Cys Val Ile Ala  
 565 570 575  
 Gln Val Gly Val Met Asp Met Leu Lys Phe His Lys Tyr Thr Ile Gly  
 580 585 590  
 His Ala Trp Thr Thr Asp Tyr Gly Cys Ser Asp Ser Lys Gln His Phe  
 595 600 605  
 Glu Trp Leu Val Lys Tyr Ser Pro Leu His Asn Val Lys Leu Pro Glu  
 610 615 620  
 Ala Asp Asp Ile Gln Tyr Pro Ser Met Leu Leu Leu Thr Ala Asp His

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Asn Gly His Gly Ala Tyr Gly Glu Lys Gly Gln Lys Gly Glu Pro Ala  
 420 425 430  
 Val Val Glu Pro Gly Met Leu Val Glu Gly Pro Pro Gly Pro Ala Gly  
 435 440 445  
 Pro Ala Gly Ile Met Gly Pro Gly Leu Gln Gly Pro Thr Gly Pro  
 450 455 460  
 Pro Gly Asp Pro Gly Asp Arg Gly Pro Pro Gly Arg Pro Gly Leu Pro  
 465 470 475 480  
 Gly Ala Asp Gly Leu Pro Gly Pro Pro Gly Thr Met Leu Met Leu Pro  
 485 490 495  
 Phe Arg Tyr Gly Gly Asp Gly Ser Lys Gly Pro Thr Ile Ser Ala Gln  
 500 505 510  
 Glu Ala Gln Ala Gln Ala Ile Leu Gln Gln Ala Arg Ile Ala Leu Arg  
 515 520 525  
 Gly Pro Pro Gly Pro Met Gly Leu Thr Gly Arg Pro Gly Pro Val Gly  
 530 535 540  
 Gly Pro Gly Ser Ser Gly Ala Lys Gly Glu Ser Gly Asp Pro Gly Pro  
 545 550 555 560  
 Gln Gly Pro Arg Gly Val Gln Gly Pro Pro Gly Pro Thr Gly Lys Pro  
 565 570 575  
 Gly Lys Arg Gly Arg Pro Gly Ala Asp Gly Gly Arg Gly Met Pro Gly  
 580 585 590  
 Glu Pro Gly Ala Lys Gly Asp Arg Gly Phe Asp Gly Leu Pro Gly Leu  
 595 600 605  
 Pro Gly Asp Lys Gly His Arg Gly Glu Arg Gly Pro Gln Gly Pro Pro  
 610 615 620  
 Gly Pro Pro Gly Asp Asp Gly Met Arg Gly Glu Asp Gly Glu Ile Gly  
 625 630 635 640  
 Pro Arg Gly Leu Pro Gly Glu Ala Gly Pro Arg Gly Leu Leu Gly Pro  
 645 650 655  
 Arg Gly Thr Pro Gly Ala Pro Gly Gln Pro Gly Met Ala Gly Val Asp  
 660 665 670  
 Gly Pro Pro Gly Pro Lys Gly Asn Met Gly Pro Gln Gly Glu Pro Gly  
 675 680 685  
 Pro Pro Gly Gln Gln Gly Asn Pro Gly Pro Gln Gly Leu Pro Gly Pro  
 690 695 700  
 Gln Gly Pro Ile Gly Pro Pro Gly Glu Lys Gly Pro Gln Gly Lys Pro  
 705 710 715 720  
 Gly Leu Ala Gly Leu Pro Gly Ala Asp Gly Pro Pro Gly His Pro Gly  
 725 730 735  
 Lys Glu Gly Gln Ser Gly Glu Lys Gly Ala Leu Gly Pro Pro Gly Pro  
 740 745 750  
 Gln Gly Pro Ile Gly Tyr Pro Gly Pro Arg Gly Val Lys Gly Ala Asp  
 755 760 765  
 Gly Val Arg Gly Leu Lys Gly Ser Lys Gly Glu Lys Gly Glu Asp Gly  
 770 775 780  
 Phe Pro Gly Phe Lys Gly Asp Met Gly Leu Lys Gly Asp Arg Gly Glu  
 785 790 795 800  
 Val Gly Gln Ile Gly Pro Arg Gly Glu Asp Gly Pro Glu Gly Pro Lys  
 805 810 815  
 Gly Arg Ala Gly Pro Thr Gly Asp Pro Gly Pro Ser Gly Gln Ala Gly  
 820 825 830  
 Glu Lys Gly Lys Leu Gly Val Pro Gly Leu Pro Gly Tyr Pro Gly Arg  
 835 840 845  
 Gln Gly Pro Lys Gly Ser Thr Gly Phe Pro Gly Phe Pro Gly Ala Asn  
 850 855 860  
 Gly Glu Lys Gly Ala Arg Gly Val Ala Gly Lys Pro Gly Pro Arg Gly  
 865 870 875 880  
 Gln Arg Gly Pro Thr Gly Pro Arg Gly Ser Arg Gly Ala Arg Gly Pro  
 885 890 895  
 Thr Gly Lys Pro Gly Pro Lys Gly Thr Ser Gly Gly Asp Gly Pro Pro  
 900 905 910  
 Gly Pro Pro Gly Glu Arg Gly Pro Gln Gly Pro Gln Gly Pro Val Gly  
 915 920 925  
 Phe Pro Gly Pro Lys Gly Pro Pro Gly Pro Pro Gly Arg Met Gly Cys  
 930 935 940  
 Pro Gly His Pro Gly Gln Arg Gly Glu Thr Gly Phe Gln Gly Lys Thr  
 945 950 955 960  
 Gly Pro Pro Gly Pro Gly Gly Val Val Gly Pro Gln Gly Pro Thr Gly

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Gly	Ile	Pro	Gly	Pro	Ala	Gly	Pro	Leu	Gly	Pro	Pro	Gly	Pro	Pro
1490						1495					1500			
Gly	Leu	Pro	Gly	Pro	Gln	Gly	Pro	Lys	Gly	Asn	Lys	Gly	Ser	Thr
1505						1510					1515			
Gly	Pro	Ala	Gly	Gln	Lys	Gly	Asp	Ser	Gly	Leu	Pro	Gly	Pro	Pro
1520						1525					1530			
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Glu	Val	Ile	Gln	Pro	Leu	Pro	Ile
1535						1540					1545			
Leu	Ser	Ser	Lys	Lys	Thr	Arg	Arg	His	Thr	Glu	Gly	Met	Gln	Ala
1550						1555					1560			
Asp	Ala	Asp	Asp	Asn	Ile	Leu	Asp	Tyr	Ser	Asp	Gly	Met	Glu	Glu
1565						1570					1575			
Ile	Phe	Gly	Ser	Leu	Asn	Ser	Leu	Lys	Gln	Asp	Ile	Glu	His	Met
1580						1585					1590			
Lys	Phe	Pro	Met	Gly	Thr	Gln	Thr	Asn	Pro	Ala	Arg	Thr	Cys	Lys
1595						1600					1605			
Asp	Leu	Gln	Leu	Ser	His	Pro	Asp	Phe	Pro	Asp	Gly	Glu	Tyr	Trp
1610						1615					1620			
Ile	Asp	Pro	Asn	Gln	Gly	Cys	Ser	Gly	Asp	Ser	Phe	Lys	Val	Tyr
1625						1630					1635			
Cys	Asn	Phe	Thr	Ser	Gly	Gly	Glu	Thr	Cys	Ile	Tyr	Pro	Asp	Lys
1640						1645					1650			
Lys	Ser	Glu	Gly	Val	Arg	Ile	Ser	Ser	Trp	Pro	Lys	Glu	Lys	Pro
1655						1660					1665			
Gly	Ser	Trp	Phe	Ser	Glu	Phe	Lys	Arg	Gly	Lys	Leu	Leu	Ser	Tyr
1670						1675					1680			
Leu	Asp	Val	Glu	Gly	Asn	Ser	Ile	Asn	Met	Val	Gln	Met	Thr	Phe
1685						1690					1695			
Leu	Lys	Leu	Leu	Thr	Ala	Ser	Ala	Arg	Gln	Asn	Phe	Thr	Tyr	His
1700						1705					1710			
Cys	His	Gln	Ser	Ala	Ala	Trp	Tyr	Asp	Val	Ser	Ser	Gly	Ser	Tyr
1715						1720					1725			
Asp	Lys	Ala	Leu	Arg	Phe	Leu	Gly	Ser	Asn	Asp	Glu	Glu	Met	Ser
1730						1735					1740			
Tyr	Asp	Asn	Asn	Pro	Phe	Ile	Lys	Thr	Leu	Tyr	Asp	Gly	Cys	Thr
1745						1750					1755			
Ser	Arg	Lys	Gly	Tyr	Glu	Lys	Thr	Val	Ile	Glu	Ile	Asn	Thr	Pro
1760						1765					1770			
Lys	Ile	Asp	Gln	Val	Pro	Ile	Val	Asp	Val	Met	Ile	Asn	Asp	Phe
1775						1780					1785			
Gly	Asp	Gln	Asn	Gln	Lys	Phe	Gly	Phe	Glu	Val	Gly	Pro	Val	Cys
1790						1795					1800			
Phe	Leu	Gly												
1805														

<210> 209  
 <211> 669  
 <212> PRT  
 <213> Homo sapiens  
 <400> 209

Met	Thr	Ala	Ala	Ala	Gly	Ser	Ala	Gly	Arg	Ala	Ala	Val	Pro	Leu	Leu
1				5					10					15	
Leu	Cys	Ala	Leu	Leu	Ala	Pro	Gly	Gly	Ala	Tyr	Val	Leu	Asp	Asp	Ser
			20					25					30		
Asp	Gly	Leu	Gly	Arg	Glu	Phe	Asp	Gly	Ile	Gly	Ala	Val	Ser	Gly	Gly
		35					40					45			
Gly	Ala	Thr	Ser	Arg	Leu	Leu	Val	Asn	Tyr	Pro	Glu	Pro	Tyr	Arg	Ser
		50				55					60				
Gln	Ile	Leu	Asp	Tyr	Leu	Phe	Lys	Pro	Asn	Phe	Gly	Ala	Ser	Leu	His
65					70					75				80	
Ile	Leu	Lys	Val	Glu	Ile	Gly	Gly	Asp	Gly	Gln	Thr	Thr	Asp	Gly	Thr
			85					90					95		
Glu	Pro	Ser	His	Met	His	Tyr	Ala	Leu	Asp	Glu	Asn	Tyr	Phe	Arg	Gly
			100					105					110		
Tyr	Glu	Trp	Trp	Leu	Met	Lys	Glu	Ala	Lys	Lys	Arg	Asn	Pro	Asn	Ile
		115					120						125		
Thr	Leu	Ile	Gly	Leu	Pro	Trp	Ser	Phe	Pro	Gly	Trp	Leu	Gly	Lys	Gly
	130					135					140				
Phe	Asp	Trp	Pro	Tyr	Val	Asn	Leu	Gln	Leu	Thr	Ala	Tyr	Tyr	Val	Val

145 Thr Trp Ile Val Gly 150 Ala Lys Arg Tyr His 155 Asp Leu Asp Ile Asp 160 Tyr  
 165 Ile Gly Ile Trp Asn Glu Arg Ser Tyr Asn Ala Asn Tyr Ile Lys Ile 175  
 180 Leu Arg Lys Met Leu Asn Tyr Gln Gly Leu Gln Arg Val Lys Ile Ile 190  
 195 Ala Ser Asp Asn Leu Trp Glu Ser Ile Ser Ala Ser Met Leu Leu Asp 205  
 210 Ala Glu Leu Phe Lys Val Val Asp Val Ile Gly Ala His Tyr Pro Gly 220  
 225 Thr His Ser Ala Lys Asp Ala Lys Leu Thr Gly Lys Lys Leu Trp Ser 235  
 245 Ser Glu Asp Phe Ser Thr Leu Asn Ser Asp Met Gly Ala Gly Cys Trp 250  
 260 Gly Arg Ile Leu Asn Gln Asn Tyr Ile Asn Gly Tyr Met Thr Ser Thr 265  
 275 Ile Ala Trp Asn Leu Val Ala Ser Tyr Tyr Glu Gln Leu Pro Tyr Gly 280  
 290 Arg Cys Gly Leu Met Thr Ala Gln Glu Pro Trp Ser Gly His Tyr Val 295  
 305 Val Glu Ser Pro Val Trp Val Ser Ala His Thr Thr Gln Phe Thr Gln 310  
 325 Pro Gly Trp Tyr Tyr Leu Lys Thr Val Gly His Leu Glu Lys Gly Gly 330  
 340 Ser Tyr Val Ala Leu Thr Asp Gly Leu Gly Asn Leu Thr Ile Ile Ile 345  
 355 Glu Thr Met Ser His Lys His Ser Lys Cys Ile Arg Pro Phe Leu Pro 360  
 370 Tyr Phe Asn Val Ser Gln Gln Phe Ala Thr Phe Val Leu Lys Gly Ser 375  
 385 Phe Ser Glu Ile Pro Glu Leu Gln Val Trp Tyr Thr Lys Leu Gly Lys 380  
 405 Thr Ser Glu Arg Phe Leu Phe Lys Gln Leu Asp Ser Leu Trp Leu Leu 395  
 420 Asp Ser Asp Gly Ser Phe Thr Leu Ser Leu His Glu Asp Glu Leu Phe 410  
 435 Thr Leu Thr Thr Leu Thr Thr Gly Arg Lys Gly Ser Tyr Pro Leu Pro 425  
 450 Pro Lys Ser Gln Pro Phe Pro Ser Thr Tyr Lys Asp Asp Phe Asn Val 440  
 465 Asp Tyr Pro Phe Phe Ser Glu Ala Pro Asn Phe Ala Asp Gln Thr Gly 455  
 485 Val Phe Glu Tyr Phe Thr Asn Ile Glu Asp Pro Gly Glu His His Phe 470  
 500 Thr Leu Arg Gln Val Leu Asn Gln Arg Pro Ile Thr Trp Ala Ala Asp 485  
 515 Ala Ser Asn Thr Ile Ser Ile Ile Gly Asp Tyr Asn Trp Thr Asn Leu 490  
 530 Thr Ile Lys Cys Asp Val Tyr Ile Glu Thr Pro Asp Thr Gly Gly Val 505  
 545 Phe Ile Ala Gly Arg Val Asn Lys Gly Gly Ile Leu Ile Arg Ser Ala 510  
 565 Arg Gly Ile Phe Phe Trp Ile Phe Ala Asn Gly Ser Tyr Arg Val Thr 525  
 580 Gly Asp Leu Ala Gly Trp Ile Ile Tyr Ala Leu Gly Arg Val Glu Val 540  
 595 Thr Ala Lys Lys Trp Tyr Thr Leu Thr Leu Thr Ile Lys Gly His Phe 555  
 610 Ala Ser Gly Met Leu Asn Asp Lys Ser Leu Trp Thr Asp Ile Pro Val 570  
 625 Asn Phe Pro Lys Asn Gly Trp Ala Ala Ile Gly Thr His Ser Phe Glu 585  
 645 Phe Ala Gln Phe Asp Asn Phe Leu Val Glu Ala Thr Arg 590  
 660 665

<210> 210  
 <211> 508  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 210

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Met Gln Arg Leu Leu Thr Pro Val Lys Arg Ile Leu Gln Leu Thr Arg
1      5      10      15
Ala Val Gln Glu Thr Ser Leu Thr Pro Ala Arg Leu Leu Pro Val Ala
20      25      30
His Gln Arg Phe Ser Thr Ala Ser Ala Val Pro Leu Ala Lys Thr Asp
35      40      45
Thr Trp Pro Lys Asp Val Gly Ile Leu Ala Leu Glu Val Tyr Phe Pro
50      55      60
Ala Gln Tyr Val Asp Gln Thr Asp Leu Glu Lys Tyr Asn Asn Val Glu
65      70      75      80
Ala Gly Lys Tyr Thr Val Gly Leu Gly Gln Thr Arg Met Gly Phe Cys
85      90      95
Ser Val Gln Glu Asp Ile Asn Ser Leu Cys Leu Thr Val Val Gln Arg
100     105     110
Leu Met Glu Arg Ile Gln Leu Pro Trp Asp Ser Val Gly Arg Leu Glu
115     120     125
Val Gly Thr Glu Thr Ile Ile Asp Lys Ser Lys Ala Val Lys Thr Val
130     135     140
Leu Met Glu Leu Phe Gln Asp Ser Gly Asn Thr Asp Ile Glu Gly Ile
145     150     155     160
Asp Thr Thr Asn Ala Cys Tyr Gly Gly Thr Ala Ser Leu Phe Asn Ala
165     170     175
Ala Asn Trp Met Glu Ser Ser Ser Trp Asp Gly Arg Tyr Ala Met Val
180     185     190
Val Cys Gly Asp Ile Ala Val Tyr Pro Ser Gly Asn Ala Arg Pro Thr
195     200     205
Gly Gly Ala Gly Ala Val Ala Met Leu Ile Gly Pro Lys Ala Pro Leu
210     215     220
Ala Leu Glu Arg Gly Leu Arg Gly Thr His Met Glu Asn Val Tyr Asp
225     230     235     240
Phe Tyr Lys Pro Asn Leu Ala Ser Glu Tyr Pro Ile Val Asp Gly Lys
245     250     255
Leu Ser Ile Gln Cys Tyr Leu Arg Ala Leu Asp Arg Cys Tyr Thr Ser
260     265     270
Tyr Arg Lys Lys Ile Gln Asn Gln Trp Lys Gln Ala Gly Ser Asp Arg
275     280     285
Pro Phe Thr Leu Asp Asp Leu Gln Tyr Met Ile Phe His Thr Pro Phe
290     295     300
Cys Lys Met Val Gln Lys Ser Leu Ala Arg Leu Met Phe Asn Asp Phe
305     310     315     320
Leu Ser Ala Ser Ser Asp Thr Gln Thr Ser Leu Tyr Lys Gly Leu Glu
325     330     335
Ala Phe Gly Gly Leu Lys Leu Glu Asp Thr Tyr Thr Asn Lys Asp Leu
340     345     350
Asp Lys Ala Leu Leu Lys Ala Ser Gln Asp Met Phe Asp Lys Lys Thr
355     360     365
Lys Ala Ser Leu Tyr Leu Ser Thr His Asn Gly Asn Met Tyr Thr Ser
370     375     380
Ser Leu Tyr Gly Cys Leu Ala Ser Leu Leu Ser His His Ser Ala Gln
385     390     395     400
Glu Leu Ala Gly Ser Arg Ile Gly Ala Phe Ser Tyr Gly Ser Gly Leu
405     410     415
Ala Ala Ser Phe Phe Ser Phe Arg Val Ser Gln Asp Ala Ala Pro Gly
420     425     430
Ser Pro Leu Asp Lys Leu Val Ser Ser Thr Ser Asp Leu Pro Lys Arg
435     440     445
Leu Ala Ser Arg Lys Cys Val Ser Pro Glu Glu Phe Thr Glu Ile Met
450     455     460
Asn Gln Arg Glu Gln Phe Tyr His Lys Val Asn Phe Ser Pro Pro Gly
465     470     475     480
Asp Thr Asn Ser Leu Phe Pro Gly Thr Trp Tyr Leu Glu Arg Val Asp
485     490     495
Glu Gln His Arg Arg Lys Tyr Ala Arg Arg Pro Val
500     505

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&lt;210&gt; 211

&lt;211&gt; 548

<212> PRT  
 <213> Homo sapiens  
 <400> 211  
 Met Asn Ile Glu Val Val Glu Val Leu Thr Leu Asn Gln Glu Val Ala  
 1 5 10 15  
 Gly Pro Arg Asn Ala Gln Ile Gln Ala Leu Tyr Ala Glu Asp Gly Ser  
 20 25 30  
 Leu Ser Ala Asp Ala Pro Ser Glu Gln Val Gln Gln Gln Gly Lys His  
 35 40 45  
 Pro Gly Asp Pro Glu Ala Ala Arg Gln Arg Phe Arg Gln Phe Arg Tyr  
 50 55 60  
 Lys Asp Met Thr Gly Pro Arg Glu Ala Leu Asp Gln Leu Arg Glu Leu  
 65 70 75 80  
 Cys His Gln Trp Leu Gln Pro Lys Ala Arg Ser Lys Glu Gln Ile Leu  
 85 90 95  
 Glu Leu Leu Val Leu Glu Gln Phe Leu Gly Ala Leu Pro Val Lys Leu  
 100 105 110  
 Arg Thr Trp Val Glu Ser Gln His Pro Glu Asn Cys Gln Glu Val Val  
 115 120 125  
 Ala Leu Val Glu Gly Val Thr Trp Met Ser Glu Glu Glu Val Leu Pro  
 130 135 140  
 Ala Gly Gln Pro Ala Glu Gly Thr Thr Cys Cys Leu Glu Val Thr Ala  
 145 150 155 160  
 Gln Gln Glu Glu Lys Gln Glu Asp Ala Ala Ile Cys Pro Val Thr Val  
 165 170 175  
 Leu Pro Glu Glu Pro Val Thr Phe Gln Asp Val Ala Val Asp Phe Ser  
 180 185 190  
 Arg Glu Glu Trp Gly Leu Leu Gly Pro Thr Gln Arg Thr Glu Tyr Arg  
 195 200 205  
 Asp Val Met Leu Glu Thr Phe Gly His Leu Val Ser Val Gly Trp Glu  
 210 215 220  
 Thr Thr Leu Glu Asn Lys Glu Leu Ala Pro Asn Ser Asp Ile Pro Glu  
 225 230 235 240  
 Glu Glu Pro Ala Pro Ser Leu Lys Val Gln Glu Ser Ser Arg Asp Cys  
 245 250 255  
 Ala Leu Ser Ser Thr Leu Glu Asp Thr Leu Gln Gly Gly Val Gln Glu  
 260 265 270  
 Val Gln Asp Thr Val Leu Lys Gln Met Glu Ser Ala Gln Glu Lys Asp  
 275 280 285  
 Leu Pro Gln Lys Lys His Phe Asp Asn Arg Glu Ser Gln Ala Asn Ser  
 290 295 300  
 Gly Ala Leu Asp Thr Asn Gln Val Ser Leu Gln Lys Ile Asp Asn Pro  
 305 310 315 320  
 Glu Ser Gln Ala Asn Ser Gly Ala Leu Asp Thr Asn Gln Val Leu Leu  
 325 330 335  
 His Lys Ile Pro Pro Arg Lys Arg Leu Arg Lys Arg Asp Ser Gln Val  
 340 345 350  
 Lys Ser Met Lys His Asn Ser Arg Val Lys Ile His Gln Lys Ser Cys  
 355 360 365  
 Glu Arg Gln Lys Ala Lys Glu Gly Asn Gly Cys Arg Lys Thr Phe Ser  
 370 375 380  
 Arg Ser Thr Lys Gln Ile Thr Phe Ile Arg Ile His Lys Gly Ser Gln  
 385 390 395 400  
 Val Cys Arg Cys Ser Glu Cys Gly Lys Ile Phe Arg Asn Pro Arg Tyr  
 405 410 415  
 Phe Ser Val His Lys Lys Ile His Thr Gly Glu Arg Pro Tyr Val Cys  
 420 425 430  
 Gln Asp Cys Gly Lys Gly Phe Val Gln Ser Ser Ser Leu Thr Gln His  
 435 440 445  
 Gln Arg Val His Ser Gly Glu Arg Pro Phe Glu Cys Gln Glu Cys Gly  
 450 455 460  
 Arg Thr Phe Asn Asp Arg Ser Ala Ile Ser Gln His Leu Arg Thr His  
 465 470 475 480  
 Thr Gly Ala Lys Pro Tyr Lys Cys Gln Asp Cys Gly Lys Ala Phe Arg  
 485 490 495  
 Gln Ser Ser His Leu Ile Arg His Gln Arg Thr His Thr Gly Glu Arg  
 500 505 510  
 Pro Tyr Ala Cys Asn Lys Cys Gly Lys Ala Phe Thr Gln Ser Ser His  
 515 520 525

Leu Ile Gly His Gln Arg Thr His Asn Arg Thr Lys Arg Lys Lys Lys  
 530 535 540  
 Gln Pro Thr Ser  
 545

<210> 212  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
 <400> 212

Met Ala Thr Met Glu Asn Lys Val Ile Cys Ala Leu Val Leu Val Ser  
 1 5 10 15  
 Met Leu Ala Leu Gly Thr Leu Ala Glu Ala Gln Thr Glu Thr Cys Thr  
 20 25 30  
 Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro  
 35 40 45  
 Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly  
 50 55 60  
 Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu  
 65 70 75 80  
 Glu Cys Glu Phe

<210> 213  
 <211> 339  
 <212> PRT  
 <213> Homo sapiens  
 <400> 213

Met Ala Met Gln Met Gln Leu Glu Ala Asn Ala Asp Thr Ser Val Glu  
 1 5 10 15  
 Glu Glu Ser Phe Gly Pro Gln Pro Ile Ser Arg Leu Glu Gln Cys Gly  
 20 25 30  
 Ile Asn Ala Asn Asp Val Lys Lys Leu Glu Glu Ala Gly Phe His Thr  
 35 40 45  
 Val Glu Ala Val Ala Tyr Ala Pro Lys Lys Glu Leu Ile Asn Ile Lys  
 50 55 60  
 Gly Ile Ser Glu Ala Lys Ala Asp Lys Ile Leu Ala Glu Ala Ala Lys  
 65 70 75 80  
 Leu Val Pro Met Gly Phe Thr Thr Ala Thr Glu Phe His Gln Arg Arg  
 85 90 95  
 Ser Glu Ile Ile Gln Ile Thr Thr Gly Ser Lys Glu Leu Asp Lys Leu  
 100 105 110  
 Leu Gln Gly Gly Ile Glu Thr Gly Ser Ile Thr Glu Met Phe Gly Glu  
 115 120 125  
 Phe Arg Thr Gly Lys Thr Gln Ile Cys His Thr Leu Ala Val Thr Cys  
 130 135 140  
 Gln Leu Pro Ile Asp Arg Gly Gly Gly Glu Gly Lys Ala Met Tyr Ile  
 145 150 155 160  
 Asp Thr Glu Gly Thr Phe Arg Pro Glu Arg Leu Leu Ala Val Ala Glu  
 165 170 175  
 Arg Tyr Gly Leu Ser Gly Ser Asp Val Leu Asp Asn Val Ala Tyr Ala  
 180 185 190  
 Arg Ala Phe Asn Thr Asp His Gln Thr Gln Leu Leu Tyr Gln Ala Ser  
 195 200 205  
 Ala Met Met Val Glu Ser Arg Tyr Ala Leu Leu Ile Val Asp Ser Ala  
 210 215 220  
 Thr Ala Leu Tyr Arg Thr Asp Tyr Ser Gly Arg Gly Glu Leu Ser Ala  
 225 230 235 240  
 Arg Gln Met His Leu Ala Arg Phe Leu Arg Met Leu Leu Arg Leu Ala  
 245 250 255  
 Asp Glu Phe Gly Val Ala Val Val Ile Thr Asn Gln Val Val Ala Gln  
 260 265 270  
 Val Asp Gly Ala Ala Met Phe Ala Ala Asp Pro Lys Lys Pro Ile Gly  
 275 280 285  
 Gly Asn Ile Ile Ala His Ala Ser Thr Thr Arg Leu Tyr Leu Arg Lys  
 290 295 300  
 Gly Arg Gly Glu Thr Arg Ile Cys Lys Ile Tyr Asp Ser Pro Cys Leu  
 305 310 315 320  
 Pro Glu Ala Glu Ala Met Phe Ala Ile Asn Ala Asp Gly Val Gly Asp

	325	330	335
Ala Lys Asp			
<210> 214			
<211> 561			
<212> PRT			
<213> Homo sapiens			
<400> 214			
Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp Cys Leu Ser Val	5	10	15
Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly Pro Asp Ala Phe	20	25	30
Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe Gly Phe His	35	40	45
Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln Pro Ile Arg Val	50	55	60
Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly Glu Ile Tyr Asn	65	70	75
His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr Gln Thr Lys Val	80	85	90
Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly Gly Ile Glu Gln	95	100	105
Thr Ile Cys Met Leu Asp Gly Val Phe Ala Phe Val Leu Leu Asp Thr	110	115	120
Ala Asn Lys Lys Val Phe Leu Gly Arg Asp Thr Tyr Gly Val Arg Pro	125	130	135
Leu Phe Lys Ala Met Thr Glu Asp Gly Phe Leu Ala Val Cys Ser Glu	140	145	150
Ala Lys Gly Leu Val Thr Leu Lys His Ser Ala Thr Pro Phe Leu Lys	155	160	165
Val Glu Pro Phe Leu Pro Gly His Tyr Glu Val Leu Asp Leu Lys Pro	170	175	180
Asn Gly Lys Val Ala Ser Val Glu Met Val Lys Tyr His His Cys Arg	185	190	195
Asp Glu Pro Leu His Ala Leu Tyr Asp Asn Val Glu Lys Leu Phe Pro	200	205	210
Gly Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg Ile Leu Phe Asn	215	220	225
Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg Ile Gly Cys Leu	230	235	240
Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala Thr Leu Lys	245	250	255
Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln Thr Phe Ala Ile	260	265	270
Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg Lys Val Ala Asp	275	280	285
His Ile Gly Ser Glu His Tyr Glu Val Leu Phe Asn Ser Glu Glu Gly	290	295	300
Ile Gln Ala Leu Asp Glu Val Ile Phe Ser Leu Glu Thr Tyr Asp Ile	305	310	315
Thr Thr Val Arg Ala Ser Val Gly Met Tyr Leu Ile Ser Lys Tyr Ile	320	325	330
Arg Lys Asn Thr Asp Ser Val Val Ile Phe Ser Gly Glu Gly Ser Asp	335	340	345
Glu Leu Thr Gln Gly Tyr Ile Tyr Phe His Lys Ala Pro Ser Pro Glu	350	355	360
Lys Ala Glu Glu Glu Ser Glu Arg Leu Leu Arg Glu Leu Tyr Leu Phe	365	370	375
Asp Val Leu Arg Ala Asp Arg Thr Thr Ala Ala His Gly Leu Glu Leu	380	385	390
Arg Val Pro Phe Leu Asp His Arg Phe Ser Ser Tyr Tyr Leu Ser Leu	395	400	405
Pro Pro Glu Met Arg Ile Pro Lys Asn Gly Ile Glu Lys His Leu Leu	410	415	420
Arg Glu Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys Glu Ile Leu Trp	425	430	435
Arg Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser Val Lys Asn Ser	440	445	450
	455	460	465
	470	475	480



Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln Val Asp Asp Ala  
 485 490 495  
 Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn Thr Pro Lys Thr  
 500 505 510  
 Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg His Tyr Pro Gly  
 515 520 525  
 Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys Trp Ile Asn Ala  
 530 535 540  
 Thr Asp Pro Ser Ala Arg Thr Leu Thr His Tyr Lys Ser Ala Val Lys  
 545 550 555 560  
 Ala

<210> 215  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens  
 <400> 215

Met Ala Trp Lys Ser Gly Gly Ala Ser His Ser Glu Leu Ile His Asn  
 1 5 10 15  
 Leu Arg Lys Asn Gly Ile Ile Lys Thr Asp Lys Val Phe Glu Val Met  
 20 25 30  
 Leu Ala Thr Asp Arg Ser His Tyr Ala Lys Cys Asn Pro Tyr Met Asp  
 35 40 45  
 Ser Pro Gln Ser Ile Gly Phe Gln Ala Thr Ile Ser Ala Pro His Met  
 50 55 60  
 His Ala Tyr Ala Leu Glu Leu Leu Phe Asp Gln Leu His Glu Gly Ala  
 65 70 75 80  
 Lys Ala Leu Asp Val Gly Ser Gly Ser Gly Ile Leu Thr Ala Cys Phe  
 85 90 95  
 Ala Arg Met Val Gly Cys Thr Gly Lys Val Ile Gly Ile Asp His Ile  
 100 105 110  
 Lys Glu Leu Val Asp Asp Ser Val Asn Asn Val Arg Lys Asp Asp Pro  
 115 120 125  
 Thr Leu Leu Ser Ser Gly Arg Val Gln Leu Val Val Gly Asp Gly Arg  
 130 135 140  
 Met Gly Tyr Ala Glu Glu Ala Pro Tyr Asp Ala Ile His Val Gly Ala  
 145 150 155 160  
 Ala Ala Pro Val Val Pro Gln Ala Leu Ile Asp Gln Leu Lys Pro Gly  
 165 170 175  
 Gly Arg Leu Ile Leu Pro Val Gly Pro Ala Gly Gly Asn Gln Met Leu  
 180 185 190  
 Glu Gln Tyr Asp Lys Leu Gln Asp Gly Ser Ile Lys Met Lys Pro Leu  
 195 200 205  
 Met Gly Val Ile Tyr Val Pro Leu Thr Asp Lys Glu Lys Gln Trp Ser  
 210 215 220  
 Arg Trp Lys  
 225

<210> 216  
 <211> 595  
 <212> PRT  
 <213> Homo sapiens  
 <400> 216

Met Thr Met Thr Leu His Thr Lys Ala Ser Gly Met Ala Leu Leu His  
 1 5 10 15  
 Gln Ile Gln Gly Asn Glu Leu Glu Pro Leu Asn Arg Pro Gln Leu Lys  
 20 25 30  
 Ile Pro Leu Glu Arg Pro Leu Gly Glu Val Tyr Leu Asp Ser Ser Lys  
 35 40 45  
 Pro Ala Val Tyr Asn Tyr Pro Glu Gly Ala Ala Tyr Glu Phe Asn Ala  
 50 55 60  
 Ala Ala Ala Ala Asn Ala Gln Val Tyr Gly Gln Thr Gly Leu Pro Tyr  
 65 70 75 80  
 Gly Pro Gly Ser Glu Ala Ala Ala Phe Gly Ser Asn Gly Leu Gly Gly  
 85 90 95  
 Phe Pro Pro Leu Asn Ser Val Ser Pro Ser Pro Leu Met Leu Leu His  
 100 105 110  
 Pro Pro Pro Gln Leu Ser Pro Phe Leu Gln Pro His Gly Gln Gln Val

Pro	Tyr	Tyr	Leu	Glu	Asn	Glu	Pro	Ser	Gly	Tyr	Thr	Val	Arg	Glu	Ala
115	130					135					140				
Gly	Pro	Pro	Ala	Phe	Tyr	Arg	Pro	Asn	Ser	Asp	Asn	Arg	Arg	Gln	Gly
145					150					155					160
Gly	Arg	Glu	Arg	Leu	Ala	Ser	Thr	Asn	Asp	Lys	Gly	Ser	Met	Ala	Met
				165					170						175
Glu	Ser	Ala	Lys	Glu	Thr	Arg	Tyr	Cys	Ala	Val	Cys	Asn	Asp	Tyr	Ala
			180					185					190		
Ser	Gly	Tyr	His	Tyr	Gly	Val	Trp	Ser	Cys	Glu	Gly	Cys	Lys	Ala	Phe
		195					200					205			
Phe	Lys	Arg	Ser	Ile	Gln	Gly	His	Asn	Asp	Tyr	Met	Cys	Pro	Ala	Thr
	210				215						220				
Asn	Gln	Cys	Thr	Ile	Asp	Lys	Asn	Arg	Arg	Lys	Ser	Cys	Gln	Ala	Cys
225					230					235					240
Arg	Leu	Arg	Lys	Cys	Tyr	Glu	Val	Gly	Met	Met	Lys	Gly	Gly	Ile	Arg
				245					250					255	
Lys	Asp	Arg	Arg	Gly	Gly	Arg	Met	Leu	Lys	His	Lys	Arg	Gln	Arg	Asp
			260					265					270		
Asp	Gly	Glu	Gly	Arg	Gly	Glu	Val	Gly	Ser	Ala	Gly	Asp	Met	Arg	Ala
		275					280					285			
Ala	Asn	Leu	Trp	Pro	Ser	Pro	Leu	Met	Ile	Lys	Arg	Ser	Lys	Lys	Asn
	290					295					300				
Ser	Leu	Ala	Leu	Ser	Leu	Thr	Ala	Asp	Gln	Met	Val	Ser	Ala	Leu	Leu
305					310					315					320
Asp	Ala	Glu	Pro	Pro	Ile	Leu	Tyr	Ser	Glu	Tyr	Asp	Pro	Thr	Arg	Pro
				325					330					335	
Phe	Ser	Glu	Ala	Ser	Met	Met	Gly	Leu	Leu	Thr	Asn	Leu	Ala	Asp	Arg
			340				345						350		
Glu	Leu	Val	His	Met	Ile	Asn	Trp	Ala	Lys	Arg	Val	Pro	Gly	Phe	Val
		355					360					365			
Asp	Leu	Thr	Leu	His	Asp	Gln	Val	His	Leu	Leu	Glu	Cys	Ala	Trp	Leu
	370					375					380				
Glu	Ile	Leu	Met	Ile	Gly	Leu	Val	Trp	Arg	Ser	Met	Glu	His	Pro	Val
385					390					395					400
Lys	Leu	Leu	Phe	Ala	Pro	Asn	Leu	Leu	Leu	Asp	Arg	Asn	Gln	Gly	Lys
				405					410					415	
Cys	Val	Glu	Gly	Met	Val	Glu	Ile	Phe	Asp	Met	Leu	Leu	Ala	Thr	Ser
			420					425					430		
Ser	Arg	Phe	Arg	Met	Met	Asn	Leu	Gln	Gly	Glu	Glu	Phe	Val	Cys	Leu
		435					440					445			
Lys	Ser	Ile	Ile	Leu	Leu	Asn	Ser	Gly	Val	Tyr	Thr	Phe	Leu	Ser	Ser
	450					455					460				
Thr	Leu	Lys	Ser	Leu	Glu	Lys	Asp	His	Ile	His	Arg	Val	Leu	Asp	
465					470					475				480	
Lys	Ile	Thr	Asp	Thr	Leu	Ile	His	Leu	Met	Ala	Lys	Ala	Gly	Leu	Thr
				485					490					495	
Leu	Gln	Gln	Gln	His	Gln	Arg	Leu	Ala	Gln	Leu	Leu	Leu	Ile	Leu	Ser
			500					505					510		
His	Ile	Arg	His	Met	Ser	Asn	Lys	Gly	Met	Glu	His	Leu	Tyr	Ser	Met
		515					520					525			
Lys	Cys	Lys	Asn	Val	Val	Pro	Leu	Tyr	Asp	Leu	Leu	Leu	Glu	Met	Leu
	530					535					540				
Asp	Ala	His	Arg	Leu	His	Ala	Pro	Thr	Ser	Arg	Gly	Gly	Ala	Ser	Val
545					550					555					560
Glu	Glu	Thr	Asp	Gln	Ser	His	Leu	Ala	Thr	Ala	Gly	Ser	Thr	Ser	Ser
				565					570					575	
His	Ser	Leu	Gln	Lys	Tyr	Tyr	Ile	Thr	Gly	Glu	Ala	Glu	Gly	Phe	Pro
			580					585					590		
Ala	Thr	Val													
		595													

&lt;210&gt; 217

&lt;211&gt; 427

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

Met	Ala	Val	Leu	Ala	Ala	Leu	Leu	Arg	Ser	Gly	Ala	Arg	Ser	Arg	Ser
1				5					10				15		

Pro Leu Leu Arg Arg Leu Val Gln Glu Ile Arg Tyr Val Glu Arg Ser  
 20 25 30  
 Tyr Val Ser Lys Pro Thr Leu Lys Glu Val Val Ile Val Ser Ala Thr  
 35 40 45  
 Arg Thr Pro Ile Gly Ser Phe Leu Gly Ser Leu Ser Leu Leu Pro Ala  
 50 55 60  
 Thr Lys Leu Gly Ser Ile Ala Ile Gln Gly Ala Ile Glu Lys Ala Gly  
 65 70 75 80  
 Ile Pro Lys Glu Glu Val Lys Glu Ala Tyr Met Gly Asn Val Leu Gln  
 85 90 95  
 Gly Gly Glu Gly Gln Ala Pro Thr Arg Gln Ala Val Leu Gly Ala Gly  
 100 105 110  
 Leu Pro Ile Ser Thr Pro Cys Thr Thr Ile Asn Lys Val Cys Ala Ser  
 115 120 125  
 Gly Met Lys Ala Ile Met Met Ala Ser Gln Ser Leu Met Cys Gly His  
 130 135 140  
 Gln Asp Val Met Val Ala Gly Gly Met Glu Ser Met Ser Asn Val Pro  
 145 150 155 160  
 Tyr Val Met Asn Arg Gly Ser Thr Pro Tyr Gly Gly Val Lys Leu Glu  
 165 170 175  
 Asp Leu Ile Val Lys Asp Gly Leu Thr Asp Val Tyr Asn Lys Ile His  
 180 185 190  
 Met Gly Ser Cys Ala Glu Asn Thr Ala Lys Lys Leu Asn Ile Ala Arg  
 195 200 205  
 Asn Glu Gln Asp Ala Tyr Ala Ile Asn Ser Tyr Thr Arg Ser Lys Ala  
 210 215 220  
 Ala Trp Glu Ala Gly Lys Phe Gly Asn Glu Val Ile Pro Val Thr Val  
 225 230 235 240  
 Thr Val Lys Gly Gln Pro Asp Val Val Val Lys Glu Asp Glu Glu Tyr  
 245 250 255  
 Lys Arg Val Asp Phe Ser Lys Val Pro Lys Leu Lys Thr Val Phe Gln  
 260 265 270  
 Lys Glu Asn Gly Thr Val Thr Ala Ala Asn Ala Ser Thr Leu Asn Asp  
 275 280 285  
 Gly Ala Ala Ala Leu Val Leu Met Thr Ala Asp Ala Lys Arg Leu  
 290 295 300  
 Asn Val Thr Pro Leu Ala Arg Ile Val Ala Phe Ala Asp Ala Ala Val  
 305 310 315 320  
 Glu Pro Ile Asp Phe Pro Ile Ala Pro Val Tyr Ala Ala Ser Met Val  
 325 330 335  
 Leu Lys Asp Val Gly Leu Lys Lys Glu Asp Ile Ala Met Trp Glu Val  
 340 345 350  
 Asn Glu Ala Phe Ser Leu Val Val Leu Ala Asn Ile Lys Met Leu Glu  
 355 360 365  
 Ile Asp Pro Gln Lys Val Asn Ile Asn Gly Gly Ala Val Ser Leu Gly  
 370 375 380  
 His Pro Ile Gly Met Ser Gly Ala Arg Ile Val Gly His Leu Thr His  
 385 390 395 400  
 Ala Leu Lys Gln Gly Tyr Gly Leu Ala Ser Ile Cys Asn Gly Gly  
 405 410 415  
 Gly Gly Ala Ser Ala Met Leu Ile Gln Lys Leu  
 420 425

&lt;210&gt; 218

&lt;211&gt; 273

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

Met Ala Ala Ala Asp Gly Ala Leu Pro Glu Ala Ala Ala Leu Glu Gln  
 1 5 10 15  
 Pro Ala Glu Leu Pro Ala Ser Val Arg Ala Ser Ile Glu Arg Lys Arg  
 20 25 30  
 Gln Arg Ala Leu Met Leu Arg Gln Ala Arg Leu Ala Ala Arg Pro Tyr  
 35 40 45  
 Ser Ala Thr Ala Ala Ala Ala Thr Gly Gly Met Ala Asn Val Lys Ala  
 50 55 60  
 Ala Pro Lys Ile Ile Asp Thr Gly Gly Gly Phe Ile Leu Glu Glu Glu  
 65 70 75 80  
 Glu Glu Glu Glu Gln Lys Ile Gly Lys Val Val His Gln Pro Gly Pro

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<210> 219
<211> 1227
<212> PRT
<213> Homo sapiens
<400> 219
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Met 1	Asp	Ser	Phe	Asp 5	Leu	Ala	Leu	Leu	Gln 10	Glu	Trp	Asp	Leu 15	Glu	Ser
Leu	Cys	Val	Tyr 20	Glu	Pro	Asp	Arg	Asn 25	Ala	Leu	Arg	Arg	Lys 30	Glu	Arg
Glu	Arg	Arg 35	Asn	Gln	Glu	Thr	Gln 40	Gln	Asp	Asp	Gly	Thr 45	Phe	Asn	Ser
Ser	Tyr 50	Ser	Leu	Phe	Ser	Glu 55	Pro	Tyr	Lys	Thr	Asn 60	Lys	Gly	Asp	Glu
Leu 65	Ser	Asn	Arg	Ile	Gln 70	Asn	Thr	Leu	Gly	Asn 75	Tyr	Asp	Glu	Met	Lys
Asp	Phe	Leu	Thr	Asp 85	Arg	Thr	Asn	Gln	Ser	His 90	Leu	Val	Gly	Val 95	Pro
Lys	Pro	Gly	Val 100	Pro	Gln	Thr	Pro	Val 105	Asn	Lys	Ile	Asp	Glu 110	His	Phe
Val	Ala	Asp 115	Ser	Arg	Ala	Gln	Asn 120	Gln	Pro	Ser	Ser	Ile 125	Cys	Ser	Thr
Thr	Thr 130	Ser	Thr	Pro	Ala	Ala 135	Val	Pro	Val	Gln	Gln	Ser 140	Lys	Arg	Gly
Thr 145	Met	Gly	Trp	Gln 150	Lys	Ala	Gly	His	Pro	Pro 155	Ser	Asp	Gly	Gln	Gln
Arg	Ala	Thr	Gln	Gln 165	Gly	Ser	Leu	Arg	Thr 170	Leu	Leu	Gly	Asp	Gly 175	Val
Gly	Arg	Gln	Gln 180	Pro	Arg	Ala	Lys	Gln 185	Val	Cys	Asn	Val	Glu 190	Val	Gly
Leu	Gln 195	Thr	Gln	Glu	Arg	Pro	Pro 200	Ala	Met	Ala	Ala	Lys 205	His	Ser	Ser
Ser	Gly 210	His	Cys	Val	Gln	Asn 215	Phe	Pro	Pro	Ser	Leu	Ala 220	Ser	Lys	Pro
Ser 225	Leu	Val	Gln	Gln	Lys 230	Pro	Thr	Ala	Tyr	Val 235	Arg	Pro	Met	Asp	Gly
Gln	Asp	Gln	Ala	Pro 245	Asp	Glu	Ser	Pro	Lys 250	Leu	Lys	Ser	Ser	Ser 255	Glu
Thr	Ser	Val	His 260	Cys	Thr	Ser	Tyr	Arg 265	Gly	Val	Pro	Ala	Ser 270	Lys	Pro
Glu	Pro	Ala 275	Arg	Ala	Lys	Ala	Lys 280	Leu	Ser	Lys	Phe	Ser 285	Ile	Pro	Lys
Gln	Gly 290	Glu	Glu	Ser	Arg	Ser 295	Gly	Glu	Thr	Asn 300	Ser	Cys	Val	Glu	Glu

Ile Ile Arg Glu Met Thr Trp Leu Pro Pro Leu Ser Ala Ile Gln Ala  
 305 310 315 320  
 Pro Gly Lys Val Glu Pro Thr Lys Phe Pro Phe Pro Asn Lys Asp Ser  
 325 330 335  
 Gln Leu Val Ser Ser Gly His Asn Asn Pro Lys Lys Gly Asp Ala Glu  
 340 345 350  
 Pro Glu Ser Pro Asp Asn Gly Thr Ser Asn Thr Ser Met Leu Glu Asp  
 355 360 365  
 Asp Leu Lys Leu Ser Ser Asp Glu Glu Glu Asn Glu Gln Gln Ala Ala  
 370 375 380  
 Gln Arg Thr Ala Leu Arg Ala Leu Ser Asp Ser Ala Val Val Gln Gln  
 385 390 395 400  
 Pro Asn Cys Arg Thr Ser Val Pro Ser Ser Lys Gly Ser Ser Ser Ser  
 405 410 415  
 Ser Ser Ser Gly Thr Ser Ser Ser Ser Ser Asp Ser Glu Ser Ser Ser  
 420 425 430  
 Gly Ser Asp Ser Glu Thr Glu Ser Ser Ser Ser Glu Ser Glu Gly Ser  
 435 440 445  
 Lys Pro Pro His Phe Ser Ser Pro Glu Ala Glu Pro Ala Ser Ser Asn  
 450 455 460  
 Lys Trp Gln Leu Asp Lys Trp Leu Asn Lys Val Asn Pro His Lys Pro  
 465 470 475 480  
 Pro Ile Leu Ile Gln Asn Glu Ser His Gly Ser Glu Ser Asn Gln Tyr  
 485 490 495  
 Tyr Asn Pro Val Lys Glu Asp Val Gln Asp Cys Gly Lys Val Pro Asp  
 500 505 510  
 Val Cys Gln Pro Ser Leu Arg Glu Lys Glu Ile Lys Ser Thr Cys Lys  
 515 520 525  
 Glu Glu Gln Arg Pro Arg Thr Ala Asn Lys Ala Pro Gly Ser Lys Gly  
 530 535 540  
 Val Lys Gln Lys Ser Pro Pro Ala Ala Val Ala Val Ala Val Ser Ala  
 545 550 555 560  
 Ala Ala Pro Pro Pro Ala Val Pro Cys Ala Pro Ala Glu Asn Ala Pro  
 565 570 575  
 Ala Pro Ala Arg Arg Ser Ala Gly Lys Lys Pro Thr Arg Arg Thr Glu  
 580 585 590  
 Arg Thr Ser Ala Gly Asp Gly Ala Asn Cys His Arg Pro Glu Glu Pro  
 595 600 605  
 Ala Ala Ala Asp Ala Leu Gly Thr Ser Val Val Val Pro Pro Glu Pro  
 610 615 620  
 Thr Lys Thr Arg Pro Cys Gly Asn Asn Arg Ala Ser His Arg Lys Glu  
 625 630 635 640  
 Leu Arg Ser Ser Val Thr Cys Glu Lys Arg Arg Thr Arg Gly Leu Ser  
 645 650 655  
 Arg Ile Val Pro Lys Ser Lys Glu Phe Ile Glu Thr Glu Ser Ser Ser  
 660 665 670  
 Ser Ser Ser Ser Ser Asp Ser Asp Leu Glu Ser Glu Gln Glu Glu Tyr  
 675 680 685  
 Pro Leu Ser Lys Ala Gln Thr Val Ala Ala Ser Ala Ser Ser Gly Asn  
 690 695 700  
 Asp Gln Arg Leu Lys Glu Ala Ala Ala Asn Gly Ser Gly Pro Arg  
 705 710 715 720  
 Ala Pro Val Gly Ser Ile Asn Ala Arg Thr Thr Ser Asp Ile Ala Lys  
 725 730 735  
 Glu Leu Glu Glu Gln Phe Tyr Thr Leu Val Pro Phe Gly Arg Asn Glu  
 740 745 750  
 Leu Leu Ser Pro Leu Lys Asp Ser Asp Glu Ile Arg Ser Leu Trp Val  
 755 760 765  
 Lys Ile Asp Leu Thr Leu Leu Ser Arg Ile Pro Glu His Leu Pro Gln  
 770 775 780  
 Glu Pro Gly Val Leu Ser Ala Pro Ala Thr Lys Asp Ser Glu Ser Ala  
 785 790 795 800  
 Pro Pro Ser His Thr Ser Asp Thr Pro Ala Glu Lys Ala Leu Pro Lys  
 805 810 815  
 Ser Lys Arg Lys Arg Lys Cys Asp Asn Glu Asp Asp Tyr Arg Glu Ile  
 820 825 830  
 Lys Lys Ser Gln Gly Glu Lys Asp Ser Ser Ser Arg Leu Ala Thr Ser  
 835 840 845  
 Thr Ser Asn Thr Leu Ser Ala Asn His Cys Asn Met Asn Ile Asn Ser

850  
 Val Ala Ile Pro Ile Asn 855  
 865 Lys Asn Glu Lys Met 860  
 Ser Pro Leu Ser Asp 870 Lys Tyr Thr Ser Glu Asp 880  
 Thr Ser Ser Ser Arg Pro Asn Gly Asn Ser Leu Phe Thr Ser Ala Ser 895  
 Ser Ser Lys Lys Pro Lys Ala Asp Ser Gln Leu Gln Pro His Gly Gly 910  
 Asp Leu Thr Lys Ala Ala His Asn Asn Ser Glu Asn Ile Pro Leu His 925  
 Lys Ser Arg Pro Gln Thr Lys Pro Trp Ser Pro Gly Ser Asn Gly His 940  
 Arg Asp Cys Lys Arg Gln Lys Leu Val Phe Asp Asp Met Pro Arg Ser 955  
 Ala Asp Tyr Phe Met Gln Glu Ala Lys Arg Met Lys His Lys Ala Asp 975  
 Ala Met Val Glu Lys Phe Gly Lys Ala Leu Asn Tyr Ala Glu Ala Ala 990  
 Leu Ser Phe Ile Glu Cys Gly Asn Ala Met Glu Gln Gly Pro Met 1005  
 Glu Ser Lys Ser Pro Tyr Tyr Leu Met Tyr Ser Glu Thr Val Glu 1020  
 Leu Ile Arg Tyr Ala Met Arg Leu Lys Thr His Ser Gly Pro Asn 1035  
 Ala Thr Pro Glu Asp Lys Gln Leu Ala Ala Leu Cys Tyr Arg Cys 1050  
 Leu Ala Leu Leu Tyr Trp Arg Met Phe Arg Leu Lys Arg Asp His 1065  
 Ala Val Lys Tyr Ser Lys Ala Leu Ile Asp Tyr Phe Lys Asn Ser 1080  
 Ser Lys Ala Ala Gln Ala Pro Ser Pro Trp Gly Ala Ser Gly Lys 1095  
 Ser Thr Gly Thr Pro Ser Pro Ile Ser Pro Asn Pro Phe Pro Gly 1110  
 Ser Ser Val Gly Ser Gln Gly Ser Leu Ser Asn Ala Ser Ala Leu 1125  
 Ser Pro Ser Thr Ile Val Ser Ile Pro Gln Arg Ile His Gln Met 1140  
 Ala Ala Asn His Val Ser Ile Thr Asn Ser Ile Leu His Ser Tyr 1155  
 Asp Tyr Trp Glu Met Ala Asp Asn Leu Ala Lys Glu Asn Arg Glu 1170  
 Phe Phe Asn Asp Leu Asp Leu Leu Met Gly Pro Val Thr Leu His 1185  
 Ser Ser Met Glu His Leu Val Gln Tyr Ser Gln Gln Gly Leu His 1200  
 Trp Leu Arg Asn Ser Ala His Leu Ser 1215  
 1220 1225

&lt;210&gt; 220

&lt;211&gt; 680

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

Met Leu Pro Gln Ile Pro Phe Leu Leu Leu Val Ser Leu Asn Leu Val  
 1 5 10 15  
 His Gly Val Phe Tyr Ala Glu Arg Tyr Gln Met Pro Thr Gly Ile Lys  
 20 25 30  
 Gly Pro Leu Pro Asn Thr Lys Thr Gln Phe Phe Ile Pro Tyr Thr Ile  
 35 40 45  
 Lys Ser Lys Gly Ile Ala Val Arg Gly Glu Gln Gly Thr Pro Gly Pro  
 50 55 60  
 Pro Gly Pro Ala Gly Pro Arg Gly His Pro Gly Pro Ser Gly Pro Pro  
 65 70 75 80  
 Gly Lys Pro Gly Tyr Gly Ser Pro Gly Leu Gln Gly Glu Pro Gly Leu  
 85 90 95  
 Pro Gly Pro Pro Gly Pro Ser Ala Val Gly Lys Pro Gly Val Pro Gly  
 100 105 110

Leu Pro Gly Lys Pro Gly Glu Arg Gly Pro Tyr Gly Pro Lys Gly Asp  
 115 120 125  
 Val Gly Pro Ala Gly Leu Pro Gly Pro Arg Gly Pro Pro Gly Pro Pro  
 130 135 140  
 Gly Ile Pro Gly Pro Ala Gly Ile Ser Val Pro Gly Lys Pro Gly Gln  
 145 150 155 160  
 Gln Gly Pro Thr Gly Ala Pro Gly Pro Arg Gly Phe Pro Gly Glu Lys  
 165 170 175  
 Gly Ala Pro Gly Val Pro Gly Met Asn Gly Gln Lys Gly Glu Met Gly  
 180 185 190  
 Tyr Gly Ala Pro Gly Arg Pro Gly Glu Arg Gly Leu Pro Gly Pro Gln  
 195 200 205  
 Gly Pro Thr Gly Pro Ser Gly Pro Pro Gly Val Gly Lys Arg Gly Glu  
 210 215 220  
 Asn Gly Val Pro Gly Gln Pro Gly Ile Lys Gly Asp Arg Gly Phe Pro  
 225 230 235 240  
 Gly Glu Met Gly Pro Ile Gly Pro Pro Gly Pro Gln Gly Pro Pro Gly  
 245 250 255  
 Glu Arg Gly Pro Glu Gly Ile Gly Lys Pro Gly Ala Ala Gly Ala Pro  
 260 265 270  
 Gly Gln Pro Gly Ile Pro Gly Thr Lys Gly Leu Pro Gly Ala Pro Gly  
 275 280 285  
 Ile Ala Gly Pro Pro Gly Pro Pro Gly Phe Gly Lys Pro Gly Leu Pro  
 290 295 300  
 Gly Leu Lys Gly Glu Arg Gly Pro Ala Gly Leu Pro Gly Gly Pro Gly  
 305 310 315 320  
 Ala Lys Gly Glu Gln Gly Pro Ala Gly Leu Pro Gly Lys Pro Gly Leu  
 325 330 335  
 Thr Gly Pro Pro Gly Asn Met Gly Pro Gln Gly Pro Lys Gly Ile Pro  
 340 345 350  
 Gly Ser His Gly Leu Pro Gly Pro Lys Gly Glu Thr Gly Pro Ala Gly  
 355 360 365  
 Pro Ala Gly Tyr Pro Gly Ala Lys Gly Glu Arg Gly Ser Pro Gly Ser  
 370 375 380  
 Asp Gly Lys Pro Gly Tyr Pro Gly Lys Pro Gly Leu Asp Gly Pro Lys  
 385 390 395 400  
 Gly Asn Pro Gly Leu Pro Gly Pro Lys Gly Asp Pro Gly Val Gly Gly  
 405 410 415  
 Pro Pro Gly Leu Pro Gly Pro Val Gly Pro Ala Gly Ala Lys Gly Met  
 420 425 430  
 Pro Gly His Asn Gly Glu Ala Gly Pro Arg Gly Ala Pro Gly Ile Pro  
 435 440 445  
 Gly Thr Arg Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly Phe Pro Gly  
 450 455 460  
 Ser Lys Gly Asp Pro Gly Ser Pro Gly Pro Pro Gly Pro Ala Gly Ile  
 465 470 475 480  
 Ala Thr Lys Gly Leu Asn Gly Pro Thr Gly Pro Pro Gly Pro Pro Gly  
 485 490 495  
 Pro Arg Gly His Ser Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly Pro  
 500 505 510  
 Pro Gly Pro Pro Gly Gln Ala Val Met Pro Glu Gly Phe Ile Lys Ala  
 515 520 525  
 Gly Gln Arg Pro Ser Leu Ser Gly Thr Pro Leu Val Ser Ala Asn Gln  
 530 535 540  
 Gly Val Thr Gly Met Pro Val Ser Ala Phe Thr Val Ile Leu Ser Lys  
 545 550 555 560  
 Ala Tyr Pro Ala Ile Gly Thr Pro Ile Pro Phe Asp Lys Ile Leu Tyr  
 565 570 575  
 Asn Arg Gln Gln His Tyr Asp Pro Arg Thr Gly Ile Phe Thr Cys Gln  
 580 585 590  
 Ile Pro Gly Ile Tyr Tyr Phe Ser Tyr His Val His Val Lys Gly Thr  
 595 600 605  
 His Val Trp Val Gly Leu Tyr Lys Asn Gly Thr Pro Val Met Tyr Thr  
 610 615 620  
 Tyr Asp Glu Tyr Thr Lys Gly Tyr Leu Asp Gln Ala Ser Gly Ser Ala  
 625 630 635 640  
 Ile Ile Asp Leu Thr Glu Asn Asp Gln Val Trp Leu Gln Leu Pro Asn  
 645 650 655  
 Ala Glu Ser Asn Gly Leu Tyr Ser Ser Glu Tyr Val His Ser Ser Phe

660  
 Ser Gly Phe Leu Val Ala Pro Met  
 675 680

665  
 670

<210> 221  
 <211> 622  
 <212> PRT  
 <213> Homo sapiens  
 <400> 221

Met Gly Leu Tyr Gly Gln Ala Cys Pro Ser Val Thr Ser Leu Arg Met  
 1 5 10 15  
 Thr Ser Glu Leu Glu Ser Ser Leu Thr Ser Met Asp Trp Leu Pro Gln  
 20 25 30  
 Leu Thr Met Arg Ala Ala Ile Gln Lys Ser Asp Ala Thr Gln Asn Ala  
 35 40 45  
 His Gly Thr Gly Ile Ser Lys Lys Asn Ala Leu Leu Asp Pro Asn Thr  
 50 55 60  
 Thr Leu Asp Gln Glu Glu Val Gln Gln His Lys Asp Gly Lys Pro Pro  
 65 70 75 80  
 Tyr Ser Tyr Ala Ser Leu Ile Thr Phe Ala Ile Asn Ser Ser Pro Lys  
 85 90 95  
 Lys Lys Met Thr Leu Ser Glu Ile Tyr Gln Trp Ile Cys Asp Asn Phe  
 100 105 110  
 Pro Tyr Tyr Arg Glu Ala Gly Ser Gly Trp Lys Asn Ser Ile Arg His  
 115 120 125  
 Asn Leu Ser Leu Asn Lys Cys Phe Leu Lys Val Pro Arg Ser Lys Asp  
 130 135 140  
 Asp Pro Gly Lys Gly Ser Tyr Trp Ala Ile Asp Thr Asn Pro Lys Glu  
 145 150 155 160  
 Asp Ala Leu Pro Thr Arg Pro Lys Lys Arg Ala Arg Ser Val Glu Arg  
 165 170 175  
 Ala Ser Thr Pro Tyr Ser Ile Asp Ser Asp Ser Leu Gly Met Glu Cys  
 180 185 190  
 Ile Ile Ser Gly Ser Ala Ser Pro Thr Leu Ala Ile Asn Thr Val Thr  
 195 200 205  
 Asn Lys Val Thr Leu Tyr Asn Thr Asp Gln Asp Gly Ser Asp Ser Pro  
 210 215 220  
 Arg Ser Ser Leu Asn Asn Ser Leu Ser Asp Gln Ser Leu Ala Ser Val  
 225 230 235 240  
 Asn Leu Asn Ser Val Gly Ser Val His Ser Tyr Thr Pro Val Thr Ser  
 245 250 255  
 His Pro Glu Ser Val Ser Gln Ser Leu Thr Pro Gln Gln Gln Pro Gln  
 260 265 270  
 Tyr Asn Leu Pro Glu Arg Asp Lys Gln Leu Leu Phe Ser Glu Tyr Asn  
 275 280 285  
 Phe Glu Asp Leu Ser Ala Ser Phe Arg Ser Leu Tyr Lys Ser Val Phe  
 290 295 300  
 Glu Gln Ser Leu Ser Gln Gln Gly Leu Met Asn Ile Pro Ser Glu Ser  
 305 310 315 320  
 Ser Gln Gln Ser His Thr Ser Cys Thr Tyr Gln His Ser Pro Ser Ser  
 325 330 335  
 Thr Val Ser Thr His Pro His Ser Asn Gln Ser Ser Leu Ser Asn Ser  
 340 345 350  
 His Gly Ser Gly Leu Asn Thr Thr Gly Ser Asn Ser Val Ala Gln Val  
 355 360 365  
 Ser Leu Ser His Pro Gln Met His Pro Gln Pro Ser Pro His Pro Pro  
 370 375 380  
 His Arg Pro His Gly Leu Pro Gln His Pro Gln Arg Ser Pro His Pro  
 385 390 395 400  
 Ala Pro His Pro Gln Gln His Ser Gln Leu Gln Ser Pro His Pro Gln  
 405 410 415  
 His Pro Ser Pro His Gln His Ile Gln His His Pro Asn His Gln His  
 420 425 430  
 Gln Thr Leu Thr His Gln Ala Pro Pro Pro Gln Gln Val Ser Cys  
 435 440 445  
 Asn Ser Gly Val Ser Asn Asp Trp Tyr Ala Thr Leu Asp Met Leu Lys  
 450 455 460  
 Glu Ser Cys Arg Ile Ala Ser Ser Val Asn Trp Ser Asp Val Asp Leu  
 465 470 475 480



Ser Gln Phe Gln Gly Leu Met Glu Ser Met Arg Gln Ala Asp Leu Lys  
 485 490 495  
 Asn Trp Ser Leu Asp Gln Val Gln Phe Ala Asp Leu Cys Ser Ser Leu  
 500 505 510  
 Asn Gln Phe Phe Thr Gln Thr Gly Leu Ile His Ser Gln Ser Asn Val  
 515 520 525  
 Gln Gln Asn Val Cys His Gly Ala Met His Pro Thr Lys Pro Ser Gln  
 530 535 540  
 His Ile Gly Thr Gly Asn Leu Tyr Ile Asp Ser Arg Gln Asn Leu Pro  
 545 550 555 560  
 Pro Ser Val Met Pro Pro Pro Gly Tyr Pro His Ile Pro Gln Ala Leu  
 565 570 575  
 Ser Thr Pro Gly Thr Thr Met Ala Gly His His Arg Ala Met Asn Gln  
 580 585 590  
 Gln His Met Met Pro Ser Gln Ala Phe Gln Met Arg Arg Ser Leu Pro  
 595 600 605  
 Pro Asp Asp Ile Gln Asp Asp Phe Asp Trp Asp Ser Ile Val  
 610 615 620

<210> 222  
 <211> 441  
 <212> PRT  
 <213> Homo sapiens  
 <400> 222

Met Val Pro Pro Lys Leu His Val Leu Phe Cys Leu Cys Gly Cys Leu  
 1 5 10 15  
 Ala Val Val Tyr Pro Phe Asp Trp Gln Tyr Ile Asn Pro Val Ala His  
 20 25 30  
 Met Lys Ser Ser Ala Trp Val Asn Lys Ile Gln Val Leu Met Ala Ala  
 35 40 45  
 Ala Ser Phe Gly Gln Thr Lys Ile Pro Arg Gly Asn Gly Pro Tyr Ser  
 50 55 60  
 Val Gly Cys Thr Asp Leu Met Phe Asp His Thr Asn Lys Gly Thr Phe  
 65 70 75 80  
 Leu Arg Leu Tyr Tyr Pro Ser Gln Asp Asn Asp Arg Leu Asp Thr Leu  
 85 90 95  
 Trp Ile Pro Asn Lys Glu Tyr Phe Trp Gly Leu Ser Lys Phe Leu Gly  
 100 105 110  
 Thr His Trp Leu Met Gly Asn Ile Leu Arg Leu Leu Phe Gly Ser Met  
 115 120 125  
 Thr Thr Pro Ala Asn Trp Asn Ser Pro Leu Arg Pro Gly Glu Lys Tyr  
 130 135 140  
 Pro Leu Val Val Phe Ser His Gly Leu Gly Ala Phe Arg Thr Leu Tyr  
 145 150 155 160  
 Ser Ala Ile Gly Ile Asp Leu Ala Ser His Gly Phe Ile Val Ala Ala  
 165 170 175  
 Val Glu His Arg Asp Arg Ser Ala Ser Ala Thr Tyr Tyr Phe Lys Asp  
 180 185 190  
 Gln Ser Ala Ala Glu Ile Gly Asp Lys Ser Trp Leu Tyr Leu Arg Thr  
 195 200 205  
 Leu Lys Gln Glu Glu Glu Thr His Ile Arg Asn Glu Gln Val Arg Gln  
 210 215 220  
 Arg Ala Lys Glu Cys Ser Gln Ala Leu Ser Leu Ile Leu Asp Ile Asp  
 225 230 235 240  
 His Gly Lys Pro Val Lys Asn Ala Leu Asp Leu Lys Phe Asp Met Glu  
 245 250 255  
 Gln Leu Lys Asp Ser Ile Asp Arg Glu Lys Ile Ala Val Ile Gly His  
 260 265 270  
 Ser Phe Gly Gly Ala Thr Val Ile Gln Thr Leu Ser Glu Asp Gln Arg  
 275 280 285  
 Phe Arg Cys Gly Ile Ala Leu Asp Ala Trp Met Phe Pro Leu Gly Asp  
 290 295 300  
 Glu Val Tyr Ser Arg Ile Pro Gln Pro Leu Phe Phe Ile Asn Ser Glu  
 305 310 315 320  
 Tyr Phe Gln Tyr Pro Ala Asn Ile Ile Lys Met Lys Lys Cys Tyr Ser  
 325 330 335  
 Pro Asp Lys Glu Arg Lys Met Ile Thr Ile Arg Gly Ser Val His Gln  
 340 345 350  
 Asn Phe Ala Asp Phe Thr Phe Ala Thr Gly Lys Ile Ile Gly His Met

355  
 Leu Lys Leu Lys Gly Asp Ile 360  
 370 375  
 Asn Lys Ala Ser Leu Ala Phe Leu Gln Lys His Ala Ile Asp Leu Ser  
 385 390 395 400  
 Asp Phe Asp Gln Trp Asp Cys Leu Ile Glu Gly Asp Asp Glu Asn Leu  
 405 410 415  
 Ile Pro Gly Thr Asn Ile Asn Thr Thr Asn Gln His Ile Met Leu Gln  
 420 425 430  
 Asn Ser Ser Gly Ile Glu Lys Tyr Asn  
 435 440

<210> 223  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens  
 <400> 223

Met Arg Gly Arg Glu Leu Pro Leu Val Leu Leu Ala Leu Val Leu Cys  
 1 5 10 15  
 Leu Ala Pro Arg Gly Arg Ala Val Pro Leu Pro Ala Gly Gly Gly Thr  
 20 25 30  
 Val Leu Thr Lys Met Tyr Pro Arg Gly Asn His Trp Ala Val Gly His  
 35 40 45  
 Leu Met Gly Lys Lys Ser Thr Gly Glu Ser Ser Ser Val Ser Glu Arg  
 50 55 60  
 Gly Ser Leu Lys Gln Gln Leu Arg Glu Tyr Ile Arg Trp Glu Glu Ala  
 65 70 75 80  
 Ala Arg Asn Leu Leu Gly Leu Ile Glu Ala Lys Glu Asn Arg Asn His  
 85 90 95  
 Gln Pro Pro Gln Pro Lys Ala Leu Gly Asn Gln Gln Pro Ser Trp Asp  
 100 105 110  
 Ser Glu Asp Ser Ser Asn Phe Lys Asp Val Gly Ser Lys Gly Lys Val  
 115 120 125  
 Gly Arg Leu Ser Ala Pro Gly Ser Gln Arg Glu Gly Arg Asn Pro Gln  
 130 135 140  
 Leu Asn Gln Gln  
 145

<210> 224  
 <211> 491  
 <212> PRT  
 <213> Homo sapiens  
 <400> 224

Met Glu Leu Ser Val Leu Leu Phe Leu Ala Leu Leu Thr Gly Leu Leu  
 1 5 10 15  
 Leu Leu Leu Val Gln Arg His Pro Asn Thr His Asp Arg Leu Pro Pro  
 20 25 30  
 Gly Pro Arg Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Met Asp Arg  
 35 40 45  
 Arg Gly Leu Leu Lys Ser Phe Leu Arg Phe Arg Glu Lys Tyr Gly Asp  
 50 55 60  
 Val Phe Thr Val His Leu Gly Pro Arg Pro Val Val Met Leu Cys Gly  
 65 70 75 80  
 Val Glu Ala Ile Arg Glu Ala Leu Val Asp Lys Ala Glu Ala Phe Ser  
 85 90 95  
 Gly Arg Gly Lys Ile Ala Met Val Asp Pro Phe Phe Arg Gly Tyr Gly  
 100 105 110  
 Val Ile Phe Ala Asn Gly Asn Arg Trp Lys Val Leu Arg Arg Phe Ser  
 115 120 125  
 Val Thr Thr Met Arg Asp Phe Gly Met Gly Lys Arg Ser Val Glu Glu  
 130 135 140  
 Arg Ile Gln Glu Glu Ala Gln Cys Leu Ile Glu Glu Leu Arg Lys Ser  
 145 150 155 160  
 Lys Gly Ala Leu Met Asp Pro Thr Phe Leu Phe Gln Ser Ile Thr Ala  
 165 170 175  
 Asn Ile Ile Cys Ser Ile Val Phe Gly Lys Arg Phe His Tyr Gln Asp  
 180 185 190  
 Gln Glu Phe Leu Lys Met Leu Asn Leu Phe Tyr Gln Thr Phe Ser Leu  
 195 200 205

Ile Ser Ser Val Phe Gly Gln Leu Phe Glu Leu Phe Ser Gly Phe Leu  
 210 215 220  
 Lys Tyr Phe Pro Gly Ala His Arg Gln Val Tyr Lys Asn Leu Gln Glu  
 225 230 235 240  
 Ile Asn Ala Tyr Ile Gly His Ser Val Glu Lys His Arg Glu Thr Leu  
 245 250 255  
 Asp Pro Ser Ala Pro Lys Asp Leu Ile Asp Thr Tyr Leu Leu His Met  
 260 265 270  
 Glu Lys Glu Lys Ser Asn Ala His Ser Glu Phe Ser His Gln Asn Leu  
 275 280 285  
 Asn Leu Asn Thr Leu Ser Leu Phe Phe Ala Gly Thr Glu Thr Thr Ser  
 290 295 300  
 Thr Thr Leu Arg Tyr Gly Phe Leu Leu Met Leu Lys Tyr Pro His Val  
 305 310 315 320  
 Ala Glu Arg Val Tyr Arg Glu Ile Glu Gln Val Ile Gly Pro His Arg  
 325 330 335  
 Pro Pro Glu Leu His Asp Arg Ala Lys Met Pro Tyr Thr Glu Ala Val  
 340 345 350  
 Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val Pro  
 355 360 365  
 His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro Lys  
 370 375 380  
 Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro His  
 385 390 395 400  
 Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp Ala  
 405 410 415  
 Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu Gly  
 420 425 430  
 Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Leu Phe Leu  
 435 440 445  
 Phe Phe Thr Thr Ile Leu Gln Asn Phe Ser Met Ala Ser Pro Val Ala  
 450 455 460  
 Pro Glu Asp Ile Asp Leu Thr Pro Gln Glu Cys Gly Val Gly Lys Ile  
 465 470 475 480  
 Pro Pro Thr Tyr Gln Ile Arg Phe Leu Pro Arg  
 485 490

<210> 225  
 <211> 359  
 <212> PRT  
 <213> Homo sapiens  
 <400> 225

Met Val Arg Pro Met Leu Leu Leu Ser Leu Gly Leu Leu Ala Gly Leu  
 1 5 10 15  
 Leu Pro Ala Leu Ala Ala Cys Pro Gln Asn Cys His Cys His Ser Asp  
 20 25 30  
 Leu Gln His Val Ile Cys Asp Lys Val Gly Leu Gln Lys Ile Pro Lys  
 35 40 45  
 Val Ser Glu Lys Thr Lys Leu Leu Asn Leu Gln Arg Asn Asn Phe Pro  
 50 55 60  
 Val Leu Ala Ala Asn Ser Phe Arg Ala Met Pro Asn Leu Val Ser Leu  
 65 70 75 80  
 His Leu Gln His Cys Gln Ile Arg Glu Val Ala Ala Gly Ala Phe Arg  
 85 90 95  
 Gly Leu Lys Gln Leu Ile Tyr Leu Tyr Leu Ser His Asn Asp Ile Arg  
 100 105 110  
 Val Val Arg Ala Gly Ala Phe Asp Asp Leu Thr Glu Leu Thr Tyr Leu  
 115 120 125  
 Tyr Leu Asp His Asn Lys Val Thr Glu Leu Pro Arg Gly Leu Leu Ser  
 130 135 140  
 Pro Leu Val Asn Leu Phe Ile Leu Gln Leu Asn Asn Lys Ile Arg  
 145 150 155 160  
 Glu Leu Arg Ala Gly Pro Phe Gln Gly Ala Lys Asp Leu Arg Trp Leu  
 165 170 175  
 Tyr Leu Ser Glu Asn Ala Leu Ser Ser Leu Gln Pro Gly Ala Leu Asp  
 180 185 190  
 Asp Val Glu Asn Leu Ala Lys Phe His Val Asp Arg Asn Gln Leu Ser  
 195 200 205  
 Ser Tyr Pro Ser Ala Ala Leu Ser Lys Leu Arg Val Val Glu Glu Leu

210  
 Lys Leu Ser His Asn Pro Leu Lys Ser Ile Pro Asp Asn Ala Phe Gln  
 225  
 Ser Phe Gly Arg Tyr Leu Glu Thr Leu Trp Leu Asp Asn Thr Asn Leu  
 240  
 Glu Lys Phe Ser Asp Gly Ala Phe Leu Gly Val Thr Thr Leu Lys His  
 255  
 Val His Leu Glu Asn Asn Arg Leu Asn Gln Leu Pro Ser Asn Phe Pro  
 270  
 Phe Asp Ser Leu Glu Thr Leu Ala Leu Thr Asn Asn Pro Trp Lys Cys  
 285  
 Thr Cys Gln Leu Arg Gly Leu Arg Arg Trp Leu Glu Ala Lys Ala Ser  
 300  
 Arg Pro Asp Ala Thr Cys Ala Ser Pro Ala Lys Phe Lys Gly Gln His  
 320  
 Ile Arg Asp Thr Asp Ala Phe Arg Ser Cys Lys Phe Pro Thr Lys Arg  
 335  
 Ser Lys Lys Ala Gly Arg His  
 350  
 355

<210> 226  
 <211> 276  
 <212> PRT  
 <213> Homo sapiens  
 <400> 226

Met Leu Ala Trp Arg Asp Gly Glu Leu Glu Ala Glu Thr Ser Ser Ser  
 1 5 10 15  
 Leu Phe Leu Leu Ala Met Gln Val Trp Met Cys Gly Gly Arg Met Glu  
 20 25 30  
 Asp Ile Pro Cys Ser Arg Val Gly His Ile Tyr Arg Lys Tyr Val Pro  
 35 40 45  
 Tyr Lys Val Pro Ala Gly Val Ser Leu Ala Arg Val Arg Thr Leu Lys  
 50 55 60  
 Arg Val Ala Glu Val Trp Met Asp Glu Tyr Ala Glu Tyr Ile Tyr Gln  
 65 70 75 80  
 Arg Arg Pro Glu Tyr Arg His Leu Ser Ala Gly Asp Val Ala Val Gln  
 85 90 95  
 Lys Lys Leu Arg Ser Ser Leu Asn Cys Lys Ser Phe Lys Trp Phe Met  
 100 105 110  
 Thr Lys Ile Ala Trp Asp Leu Pro Lys Phe Tyr Pro Pro Val Glu Pro  
 115 120 125  
 Pro Ala Ala Ala Trp Gly Glu Ile Arg Asn Val Gly Thr Gly Leu Cys  
 130 135 140  
 Ala Asp Thr Lys His Gly Ala Leu Gly Ser Pro Leu Arg Leu Glu Gly  
 145 150 155 160  
 Cys Val Arg Gly Arg Gly Glu Ala Ala Trp Asn Asn Met Gln Val Phe  
 165 170 175  
 Thr Phe Thr Trp Arg Glu Asp Ile Arg Pro Gly Asp Pro Gln His Thr  
 180 185 190  
 Lys Lys Phe Cys Phe Asp Ala Ile Ser His Thr Ser Pro Val Thr Leu  
 195 200 205  
 Tyr Asp Cys His Ser Met Lys Gly Asn Gln Leu Trp Lys Tyr Arg Lys  
 210 215 220  
 Asp Lys Thr Leu Tyr His Pro Val Ser Gly Ser Cys Met Asp Cys Ser  
 225 230 235 240  
 Glu Ser Asp His Arg Ile Phe Met Asn Thr Cys Asn Pro Ser Ser Leu  
 245 250 255  
 Thr Gln Gln Trp Leu Phe Glu His Thr Asn Ser Thr Val Leu Glu Lys  
 260 265 270  
 Phe Asn Arg Asn  
 275

<210> 227  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens  
 <400> 227

Met Thr Leu Glu Glu Leu Val Ala Cys Asp Asn Ala Ala Gln Lys Met  
 1 5 10 15

Gln Thr Val Thr Ala Ala Val Glu Glu Leu Leu Val Ala Ala Gln Arg  
                   20                  25                  30  
 Gln Asp Arg Leu Thr Val Gly Val Tyr Glu Ser Ala Lys Leu Met Asn  
                   35                  40                  45  
 Val Asp Pro Asp Ser Val Val Leu Cys Leu Leu Ala Ile Asp Glu Glu  
                   50                  55                  60  
 Glu Glu Asp Asp Ile Ala Leu Gln Ile His Phe Thr Leu Ile Gln Ser  
                   65                  70                  75                  80  
 Phe Cys Cys Asp Asn Asp Ile Asn Ile Val Arg Val Ser Gly Asn Ala  
                   85                  90                  95  
 Arg Leu Ala Gln Leu Leu Gly Glu Pro Ala Glu Thr Gln Gly Thr Thr  
                   100                  105                  110  
 Glu Ala Arg Asp Leu His Cys Leu Pro Phe Leu Gln Asn Pro His Thr  
                   115                  120                  125  
 Asp Ala Trp Lys Ser His Gly Leu Val Glu Val Ala Ser Tyr Cys Glu  
                   130                  135                  140  
 Glu Ser Arg Gly Asn Asn Gln Trp Val Pro Tyr Ile Ser Leu Gln Glu  
                   145                  150                  155                  160  
 Arg

<210> 228  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens  
 <400> 228

Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro Pro Glu Leu  
 1                  5                  10                  15  
 Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn Ser Arg Met  
                   20                  25                  30  
 Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu Leu Tyr  
                   35                  40                  45  
 Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly Cys Gly Thr  
                   50                  55                  60  
 Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr Trp Val Gly  
                   65                  70                  75                  80  
 Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp Arg Glu Ile  
                   85                  90                  95  
 Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile Pro Phe Lys  
                   100                  105                  110  
 Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val Gln Trp Leu  
                   115                  120                  125  
 Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg Leu Tyr Cys  
                   130                  135                  140  
 Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser Arg Ala Val  
                   145                  150                  155                  160  
 Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu Ile Thr Thr  
                   165                  170                  175  
 Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val Asp Tyr Pro  
                   180                  185                  190  
 Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe Ser Gly Pro  
                   195                  200                  205  
 Ser Thr Phe Ile Pro Glu Gly Leu Ser Glu Asn Gln Asp Glu Val Glu  
                   210                  215                  220  
 Pro Arg Glu Ser Val Phe Thr Asn Glu Arg Phe Pro Leu Arg Met Ser  
                   225                  230                  235                  240  
 Arg Arg Gly Met Val Arg Lys Ser Arg Ala Trp Val Leu Glu Lys Lys  
                   245                  250                  255  
 Glu Arg His Arg Arg Gln Gly Arg Glu Val Arg Pro Asp Thr Gln Tyr  
                   260                  265                  270  
 Thr Gly Arg Lys Arg Lys Pro Arg Phe  
                   275                  280

<210> 229  
 <211> 525  
 <212> PRT  
 <213> Homo sapiens  
 <400> 229

Met Ala Ala Gly Gly Ser Gly Gly Arg Ala Ser Cys Pro Pro Gly Val

1				5					10				15
Gly	Val	Gly	Pro	Gly	Thr	Gly	Gly	Ser	Pro	Gly	Pro	Ser	Ala
			20					25					30
Ala	Ala	Thr	Pro	Ala	Pro	Gly	Asn	Ala	Ala	Ala	Ala	Ala	Ala
		35					40					45	
Ala	Ala	Ala	Ala	Ala	Ala	Pro	Gly	Pro	Thr	Pro	Pro	Ala	Pro
		50				55					60		Gly
Pro	Gly	Thr	Asp	Ala	Gln	Ala	Ala	Gly	Ala	Glu	Arg	Ala	Glu
			70							75			80
Ala	Gly	Pro	Gly	Ala	Ala	Ala	Leu	Gln	Arg	Glu	Ala	Ala	Tyr
			85						90				95
Gln	Ala	Ser	Lys	Pro	Thr	Val	Gln	Glu	Arg	Phe	Ala	Phe	Leu
			100					105					110
Asn	Glu	Val	Leu	Cys	Asp	Val	His	Phe	Leu	Val	Gly	Lys	Gly
		115					120					125	Leu
Ser	Gln	Arg	Ile	Pro	Ala	His	Arg	Phe	Val	Leu	Ala	Val	Gly
		130				135					140		Ser
Val	Phe	Asp	Ala	Met	Phe	Asn	Gly	Gly	Met	Ala	Thr	Thr	Ser
				150						155			Thr
Ile	Glu	Leu	Pro	Asp	Val	Glu	Pro	Ala	Ala	Phe	Leu	Ala	Leu
			165						170				Leu
Phe	Leu	Tyr	Ser	Asp	Glu	Val	Gln	Ile	Gly	Pro	Glu	Thr	Val
			180					185					Met
Thr	Leu	Tyr	Thr	Ala	Lys	Lys	Tyr	Ala	Val	Pro	Ala	Leu	Glu
		195					200						Ala
Cys	Val	Glu	Phe	Leu	Lys	Lys	Asn	Leu	Arg	Ala	Asp	Asn	Ala
		210				215					220		Phe
Leu	Leu	Thr	Gln	Ala	Arg	Leu	Phe	Asp	Glu	Pro	Gln	Leu	Ala
				230					235				Ser
Cys	Leu	Glu	Asn	Ile	Asp	Lys	Asn	Thr	Ala	Asp	Ala	Ile	Thr
			245						250				Ala
Gly	Phe	Thr	Asp	Ile	Asp	Leu	Asp	Thr	Leu	Val	Ala	Val	Leu
			260					265					Glu
Asp	Thr	Leu	Gly	Ile	Arg	Glu	Val	Arg	Leu	Phe	Asn	Ala	Val
		275					280					285	Val
Trp	Ser	Glu	Ala	Glu	Cys	Gln	Arg	Gln	Gln	Leu	Gln	Val	Thr
		290				295					300		Pro
Asn	Arg	Arg	Lys	Val	Leu	Gly	Lys	Ala	Leu	Gly	Leu	Ile	Arg
				310						315			Phe
Leu	Met	Thr	Ile	Glu	Glu	Phe	Ala	Ala	Gly	Pro	Ala	Gln	Ser
				325					330				Gly
Leu	Val	Asp	Arg	Glu	Val	Val	Ser	Leu	Phe	Leu	His	Phe	Thr
		340						345					Val
Pro	Lys	Pro	Arg	Val	Glu	Phe	Ile	Asp	Arg	Pro	Arg	Cys	Cys
		355					360					365	Leu
Gly	Lys	Glu	Cys	Ser	Ile	Asn	Arg	Phe	Gln	Gln	Val	Glu	Ser
		370				375					380		Arg
Gly	Tyr	Ser	Gly	Thr	Ser	Asp	Arg	Ile	Arg	Phe	Ser	Val	Asn
				390						395			Lys
Ile	Phe	Val	Val	Gly	Phe	Gly	Leu	Tyr	Gly	Ser	Ile	His	Gly
				405					410				Pro
Asp	Tyr	Gln	Val	Asn	Ile	Gln	Ile	Ile	His	Thr	Asp	Ser	Asn
			420					425					Thr
Leu	Gly	Gln	Asn	Asp	Thr	Gly	Phe	Ser	Cys	Asp	Gly	Ser	Ala
		435					440					445	Ser
Phe	Arg	Val	Met	Phe	Lys	Glu	Pro	Val	Glu	Val	Leu	Pro	Asn
		450				455					460		Val
Tyr	Thr	Ala	Cys	Ala	Thr	Leu	Lys	Gly	Pro	Asp	Ser	His	Tyr
				470						475			Gly
Lys	Gly	Leu	Arg	Lys	Val	Thr	His	Glu	Ser	Pro	Thr	Thr	Gly
				485					490				Ala
Thr	Cys	Phe	Thr	Phe	Cys	Tyr	Ala	Ala	Gly	Asn	Asn	Asn	Gly
			500					505					Thr
Val	Glu	Asp	Gly	Gln	Ile	Pro	Glu	Val	Ile	Phe	Tyr	Thr	
		515					520						

&lt;210&gt; 230

&lt;211&gt; 933

&lt;212&gt; PRT

<213> Homo sapiens  
 <400> 230  
 Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly  
 1 5 10 15  
 Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala  
 20 25 30  
 Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val  
 35 40 45  
 Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys  
 50 55 60  
 Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu  
 65 70 75 80  
 Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala  
 85 90 95  
 Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp  
 100 105 110  
 Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln  
 115 120 125  
 Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly  
 130 135 140  
 Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val  
 145 150 155 160  
 Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser  
 165 170 175  
 Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala  
 180 185 190  
 Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala  
 195 200 205  
 Pro Val Lys Pro Ser Pro Gln Ala Ala Ala Val Glu Val Glu Glu Glu  
 210 215 220  
 Asp Ser Ser Glu Ser Glu Glu Ser Ala Gly Pro Leu Leu Lys Gly Lys  
 225 230 235 240  
 Pro Arg Ala Leu Gly Gly Ala Ala Ala Gly Gly Ala Ala Ala Cys  
 245 250 255  
 Pro Pro Gly Ala Ala Ala Gly Gly Val Ala Leu Val Pro Lys Glu Asp  
 260 265 270  
 Ser Arg Phe Ser Ala Pro Arg Val Ala Leu Val Glu Gln Asp Ala Pro  
 275 280 285  
 Met Ala Pro Gly Arg Ser Pro Leu Ala Thr Thr Val Met Asp Phe Ile  
 290 295 300  
 His Val Pro Ile Leu Pro Leu Asn His Ala Leu Leu Ala Ala Arg Thr  
 305 310 315 320  
 Arg Gln Leu Leu Glu Asp Glu Ser Tyr Asp Gly Gly Ala Gly Ala Ala  
 325 330 335  
 Ser Ala Phe Ala Pro Pro Arg Thr Ser Pro Cys Ala Ser Ser Thr Pro  
 340 345 350  
 Val Ala Val Gly Asp Phe Pro Asp Cys Ala Tyr Pro Pro Asp Ala Glu  
 355 360 365  
 Pro Lys Asp Asp Ala Tyr Pro Leu Tyr Ser Asp Phe Gln Pro Pro Ala  
 370 375 380  
 Leu Lys Ile Lys Glu Glu Glu Gly Ala Glu Ala Ser Ala Arg Ser  
 385 390 395 400  
 Pro Arg Ser Tyr Leu Val Ala Gly Ala Asn Pro Ala Ala Phe Pro Asp  
 405 410 415  
 Phe Pro Leu Gly Pro Pro Pro Pro Leu Pro Pro Arg Ala Thr Pro Ser  
 420 425 430  
 Arg Pro Gly Glu Ala Ala Val Thr Ala Ala Pro Ala Ser Ala Ser Val  
 435 440 445  
 Ser Ser Ala Ser Ser Ser Gly Ser Thr Leu Glu Cys Ile Leu Tyr Lys  
 450 455 460  
 Ala Glu Gly Ala Pro Pro Gln Gln Gly Pro Phe Ala Pro Pro Pro Cys  
 465 470 475 480  
 Lys Ala Pro Gly Ala Ser Gly Cys Leu Leu Pro Arg Asp Gly Leu Pro  
 485 490 495  
 Ser Thr Ser Ala Ser Ala Ala Ala Gly Ala Ala Pro Ala Leu Tyr  
 500 505 510  
 Pro Ala Leu Gly Leu Asn Gly Leu Pro Gln Leu Gly Tyr Gln Ala Ala  
 515 520 525  
 Val Leu Lys Glu Gly Leu Pro Gln Val Tyr Pro Pro Tyr Leu Asn Tyr

530  
 Leu Arg Pro Asp Ser Glu 535  
 545 Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly 540  
 555 Asp Glu Ala Ser Phe Glu  
 560 Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly 560  
 570 Cys Lys Val Phe Phe Lys  
 575 Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys  
 580 Arg Ala Met Glu Gly Gln His Asn Tyr Leu Cys Ala Gly Arg Asn Asp  
 590 595  
 600 Cys Ile Val Asp Lys Ile Arg Arg Lys Asn Cys Pro Ala Cys Arg Leu  
 610 615  
 620 Arg Lys Cys Cys Gln Ala Gly Met Val Leu Gly Gly Arg Lys Phe Lys  
 625 630  
 635 Lys Phe Asn Lys Val Arg Val Val Arg Ala Leu Asp Ala Val Ala Leu  
 640 645  
 650 Pro Gln Pro Leu Gly Val Pro Asn Glu Ser Gln Ala Leu Ser Gln Arg  
 660 665  
 670 Phe Thr Phe Ser Pro Gly Gln Asp Ile Gln Leu Ile Pro Pro Leu Ile  
 675 680  
 685 Asn Leu Leu Met Ser Ile Glu Pro Asp Val Ile Tyr Ala Gly His Asp  
 690 695  
 700 Asn Thr Lys Pro Asp Thr Ser Ser Ser Leu Leu Thr Ser Leu Asn Gln  
 705 710  
 715 Leu Gly Glu Arg Gln Leu Leu Ser Val Val Lys Trp Ser Lys Ser Leu  
 720 725  
 730 Pro Gly Phe Arg Asn Leu His Ile Asp Asp Gln Ile Thr Leu Ile Gln  
 735 740  
 745 Tyr Ser Trp Met Ser Leu Met Val Phe Gly Leu Gly Trp Arg Ser Tyr  
 750 755  
 760 Lys His Val Ser Gly Gln Met Leu Tyr Phe Ala Pro Asp Leu Ile Leu  
 765 770  
 775 Asn Glu Gln Arg Met Lys Glu Ser Ser Phe Tyr Ser Leu Cys Leu Thr  
 780 785  
 790 Met Trp Gln Ile Pro Gln Glu Phe Val Lys Leu Gln Val Ser Gln Glu  
 800 805  
 810 Glu Phe Leu Cys Met Lys Val Leu Leu Leu Asn Thr Ile Pro Leu  
 815 820  
 825 Glu Gly Leu Arg Ser Gln Thr Gln Phe Glu Glu Met Arg Ser Ser Tyr  
 830 835  
 840 Ile Arg Glu Leu Ile Lys Ala Ile Gly Leu Arg Gln Lys Gly Val Val  
 845 850  
 855 Ser Ser Ser Gln Arg Phe Tyr Gln Leu Thr Lys Leu Leu Asp Asn Leu  
 860 865  
 870 His Asp Leu Val Lys Gln Leu His Leu Tyr Cys Leu Asn Thr Phe Ile  
 875 880  
 885 Gln Ser Arg Ala Leu Ser Val Glu Phe Pro Glu Met Met Ser Glu Val  
 890 900  
 905 Ile Ala Ala Gln Leu Pro Lys Ile Leu Ala Gly Met Val Lys Pro Leu  
 910 915  
 920 Leu Phe His Lys Lys  
 925  
 930

&lt;210&gt; 231

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 231

Met Asp Ala Asp Ser Asp Val Ala Leu Asp Ile Leu Ile Thr Asn Val  
 1 5 10 15  
 Val Cys Val Phe Arg Thr Arg Cys His Leu Asn Leu Arg Lys Ile Ala  
 20 25 30  
 Leu Glu Gly Ala Asn Val Ile Tyr Lys Arg Asp Val Gly Lys Val Leu  
 35 40 45  
 Met Lys Leu Arg Lys Pro Arg Ile Thr Ala Thr Ile Trp Ser Ser Gly  
 50 55 60  
 Lys Ile Ile Cys Thr Gly Ala Thr Ser Glu Glu Glu Ala Lys Phe Gly  
 65 70 75 80  
 Ala Arg Arg Leu Ala Arg Ser Leu Gln Lys Leu Gly Phe Gln Val Ile  
 85 90 95



Phe Thr Asp Phe Lys Val Val Asn Val Leu Ala Val Cys Asn Met Pro  
 100 105 110  
 Phe Glu Ile Arg Leu Pro Glu Phe Thr Lys Asn Asn Arg Pro His Ala  
 115 120 125  
 Ser Tyr Glu Pro Glu Leu His Pro Ala Val Cys Tyr Arg Ile Lys Ser  
 130 135 140  
 Leu Arg Ala Thr Leu Gln Ile Phe Ser Thr Gly Ser Ile Thr Val Thr  
 145 150 155 160  
 Gly Pro Asn Val Lys Ala Val Ala Thr Ala Val Glu Gln Ile Tyr Pro  
 165 170 175  
 Phe Val Phe Glu Ser Arg Lys Glu Ile Leu  
 180 185

<210> 232  
 <211> 1744  
 <212> PRT  
 <213> Homo sapiens  
 <400> 232

Met Arg Leu Leu Trp Gly Leu Ile Trp Ala Ser Ser Phe Phe Thr Leu  
 1 5 10 15  
 Ser Leu Gln Lys Pro Arg Leu Leu Leu Phe Ser Pro Ser Val Val His  
 20 25 30  
 Leu Gly Val Pro Leu Ser Val Gly Val Gln Leu Gln Asp Val Pro Arg  
 35 40 45  
 Gly Gln Val Val Lys Gly Ser Val Phe Leu Arg Asn Pro Ser Arg Asn  
 50 55 60  
 Asn Val Pro Cys Ser Pro Lys Val Asp Phe Thr Leu Ser Ser Glu Arg  
 65 70 75 80  
 Asp Phe Ala Leu Leu Ser Leu Gln Val Pro Leu Lys Asp Ala Lys Ser  
 85 90 95  
 Cys Gly Leu His Gln Leu Leu Arg Gly Pro Glu Val Gln Leu Val Ala  
 100 105 110  
 His Ser Pro Trp Leu Lys Asp Ser Leu Ser Arg Thr Thr Asn Ile Gln  
 115 120 125  
 Gly Ile Asn Leu Leu Phe Ser Ser Arg Arg Gly His Leu Phe Leu Gln  
 130 135 140  
 Thr Asp Gln Pro Ile Tyr Asn Pro Gly Gln Arg Val Arg Tyr Arg Val  
 145 150 155 160  
 Phe Ala Leu Asp Gln Lys Met Arg Pro Ser Thr Asp Thr Ile Thr Val  
 165 170 175  
 Met Val Glu Asn Ser His Gly Leu Arg Val Arg Lys Lys Glu Val Tyr  
 180 185 190  
 Met Pro Ser Ser Ile Phe Gln Asp Asp Phe Val Ile Pro Asp Ile Ser  
 195 200 205  
 Glu Pro Gly Thr Trp Lys Ile Ser Ala Arg Phe Ser Asp Gly Leu Glu  
 210 215 220  
 Ser Asn Ser Ser Thr Gln Phe Glu Val Lys Lys Tyr Val Leu Pro Asn  
 225 230 235 240  
 Phe Glu Val Lys Ile Thr Pro Gly Lys Pro Tyr Ile Leu Thr Val Pro  
 245 250 255  
 Gly His Leu Asp Glu Met Gln Leu Asp Ile Gln Ala Arg Tyr Ile Tyr  
 260 265 270  
 Gly Lys Pro Val Gln Gly Val Ala Tyr Val Arg Phe Gly Leu Leu Asp  
 275 280 285  
 Glu Asp Gly Lys Lys Thr Phe Phe Arg Gly Leu Glu Ser Gln Thr Lys  
 290 295 300  
 Leu Val Asn Gly Gln Ser His Ile Ser Leu Ser Lys Ala Glu Phe Gln  
 305 310 315 320  
 Asp Ala Leu Glu Lys Leu Asn Met Gly Ile Thr Asp Leu Gln Gly Leu  
 325 330 335  
 Arg Leu Tyr Val Ala Ala Ala Ile Ile Glu Tyr Pro Gly Gly Glu Met  
 340 345 350  
 Glu Glu Ala Glu Leu Thr Ser Trp Tyr Phe Val Ser Ser Pro Phe Ser  
 355 360 365  
 Leu Asp Leu Ser Lys Thr Lys Arg His Leu Val Pro Gly Ala Pro Phe  
 370 375 380  
 Leu Leu Gln Ala Leu Val Arg Glu Met Ser Gly Ser Pro Ala Ser Gly  
 385 390 395 400  
 Ile Pro Val Lys Val Ser Ala Thr Val Ser Ser Pro Gly Ser Val Pro

				405					410				415		
Glu	Val	Gln	Asp	Ile	Gln	Gln	Asn	Thr	Asp	Gly	Ser	Gly	Gln	Val	Ser
			420					425					430		
Ile	Pro	Ile	Ile	Ile	Pro	Gln	Thr	Ile	Ser	Glu	Leu	Gln	Leu	Ser	Val
		435					440					445			
Ser	Ala	Gly	Ser	Pro	His	Pro	Ala	Ile	Ala	Arg	Leu	Thr	Val	Ala	Ala
	450					455					460				
Pro	Pro	Ser	Gly	Gly	Pro	Gly	Phe	Leu	Ser	Ile	Glu	Arg	Pro	Asp	Ser
465					470				475						480
Arg	Pro	Pro	Arg	Val	Gly	Asp	Thr	Leu	Asn	Leu	Asn	Leu	Arg	Ala	Val
				485					490					495	
Gly	Ser	Gly	Ala	Thr	Phe	Ser	His	Tyr	Tyr	Tyr	Met	Ile	Leu	Ser	Arg
			500					505					510		
Gly	Gln	Ile	Val	Phe	Met	Asn	Arg	Glu	Pro	Lys	Arg	Thr	Leu	Thr	Ser
		515					520					525			
Val	Ser	Val	Phe	Val	Asp	His	His	Leu	Ala	Pro	Ser	Phe	Tyr	Phe	Val
	530					535					540				
Ala	Phe	Tyr	Tyr	His	Gly	Asp	His	Pro	Val	Ala	Asn	Ser	Leu	Arg	Val
545					550					555					560
Asp	Val	Gln	Ala	Gly	Ala	Cys	Glu	Gly	Lys	Leu	Glu	Leu	Ser	Val	Asp
				565					570					575	
Gly	Ala	Lys	Gln	Tyr	Arg	Asn	Gly	Glu	Ser	Val	Lys	Leu	His	Leu	Glu
			580				585						590		
Thr	Asp	Ser	Leu	Ala	Leu	Val	Ala	Leu	Gly	Ala	Leu	Asp	Thr	Ala	Leu
	595					600						605			
Tyr	Ala	Ala	Gly	Ser	Lys	Ser	His	Lys	Pro	Leu	Asn	Met	Gly	Lys	Val
	610					615					620				
Phe	Glu	Ala	Met	Asn	Ser	Tyr	Asp	Leu	Gly	Cys	Gly	Pro	Gly	Gly	Gly
625				630					635						640
Asp	Ser	Ala	Leu	Gln	Val	Phe	Gln	Ala	Ala	Gly	Leu	Ala	Phe	Ser	Asp
				645					650					655	
Gly	Asp	Gln	Trp	Thr	Leu	Ser	Arg	Lys	Arg	Leu	Ser	Cys	Pro	Lys	Glu
		660					665						670		
Lys	Thr	Thr	Arg	Lys	Lys	Arg	Asn	Val	Asn	Phe	Gln	Lys	Ala	Ile	Asn
		675					680					685			
Glu	Lys	Leu	Gly	Gln	Tyr	Ala	Ser	Pro	Thr	Ala	Lys	Arg	Cys	Cys	Gln
	690					695						700			
Asp	Gly	Val	Thr	Arg	Leu	Pro	Met	Met	Arg	Ser	Cys	Glu	Gln	Arg	Ala
705					710				715						720
Ala	Arg	Val	Gln	Gln	Pro	Asp	Cys	Arg	Glu	Pro	Phe	Leu	Ser	Cys	Cys
				725					730					735	
Gln	Phe	Ala	Glu	Ser	Leu	Arg	Lys	Lys	Ser	Arg	Asp	Lys	Gly	Gln	Ala
		740					745						750		
Gly	Leu	Gln	Arg	Ala	Leu	Glu	Ile	Leu	Gln	Glu	Glu	Asp	Leu	Ile	Asp
		755					760					765			
Glu	Asp	Asp	Ile	Pro	Val	Arg	Ser	Phe	Phe	Pro	Glu	Asn	Trp	Leu	Trp
	770					775					780				
Arg	Val	Glu	Thr	Val	Asp	Arg	Phe	Gln	Ile	Leu	Thr	Leu	Trp	Leu	Pro
785					790				795						800
Asp	Ser	Leu	Thr	Thr	Trp	Glu	Ile	His	Gly	Leu	Ser	Leu	Ser	Lys	Thr
				805					810					815	
Lys	Gly	Leu	Cys	Val	Ala	Thr	Pro	Val	Gln	Leu	Arg	Val	Phe	Arg	Glu
			820					825					830		
Phe	His	Leu	His	Leu	Arg	Leu	Pro	Met	Ser	Val	Arg	Arg	Phe	Glu	Gln
		835					840					845			
Leu	Glu	Leu	Arg	Pro	Val	Leu	Tyr	Asn	Tyr	Leu	Asp	Lys	Asn	Leu	Thr
	850					855					860				
Val	Ser	Val	His	Val	Ser	Pro	Val	Glu	Gly	Leu	Cys	Leu	Ala	Gly	Gly
865					870				875						880
Gly	Gly	Leu	Ala	Gln	Val	Leu	Val	Pro	Ala	Gly	Ser	Ala	Arg	Pro	
				885					890					895	
Val	Ala	Phe	Ser	Val	Val	Pro	Thr	Ala	Ala	Ala	Ala	Val	Ser	Leu	Lys
			900					905					910		
Val	Val	Ala	Arg	Gly	Ser	Phe	Glu	Phe	Pro	Val	Gly	Asp	Ala	Val	Ser
		915					920					925			
Lys	Val	Leu	Gln	Ile	Glu	Lys	Glu	Gly	Ala	Ile	His	Arg	Glu	Glu	Leu
	930					935					940				
Val	Tyr	Glu	Leu	Asn	Pro	Leu	Asp	His	Arg	Gly	Arg	Thr	Leu	Glu	Ile
945					950					955					960

Pro Gly Asn Ser Asp Pro Asn Met Ile Pro Asp Gly Asp Phe Asn Ser  
 965 970 975  
 Tyr Val Arg Val Thr Ala Ser Asp Pro Leu Asp Thr Leu Gly Ser Glu  
 980 985 990  
 Gly Ala Leu Ser Pro Gly Gly Val Ala Ser Leu Leu Arg Leu Pro Arg  
 995 1000 1005  
 Gly Cys Gly Glu Gln Thr Met Ile Tyr Leu Ala Pro Thr Leu Ala  
 1010 1015 1020  
 Ala Ser Arg Tyr Leu Asp Lys Thr Glu Gln Trp Ser Thr Leu Pro  
 1025 1030 1035  
 Pro Glu Thr Lys Asp His Ala Val Asp Leu Ile Gln Lys Gly Tyr  
 1040 1045 1050  
 Met Arg Ile Gln Gln Phe Arg Lys Ala Asp Gly Ser Tyr Ala Ala  
 1055 1060 1065  
 Trp Leu Ser Arg Gly Ser Ser Thr Trp Leu Thr Ala Phe Val Leu  
 1070 1075 1080  
 Lys Val Leu Ser Leu Ala Gln Glu Gln Val Gly Gly Ser Pro Glu  
 1085 1090 1095  
 Lys Leu Gln Glu Thr Ser Asn Trp Leu Leu Ser Gln Gln Gln Ala  
 1100 1105 1110  
 Asp Gly Ser Phe Gln Asp Leu Ser Pro Val Ile His Arg Ser Met  
 1115 1120 1125  
 Gln Gly Gly Leu Val Gly Asn Asp Glu Thr Val Ala Leu Thr Ala  
 1130 1135 1140  
 Phe Val Thr Ile Ala Leu His His Gly Leu Ala Val Phe Gln Asp  
 1145 1150 1155  
 Glu Gly Ala Glu Pro Leu Lys Gln Arg Val Glu Ala Ser Ile Ser  
 1160 1165 1170  
 Lys Ala Ser Ser Phe Leu Gly Glu Lys Ala Ser Ala Gly Leu Leu  
 1175 1180 1185  
 Gly Ala His Ala Ala Ala Ile Thr Ala Tyr Ala Leu Thr Leu Thr  
 1190 1195 1200  
 Lys Ala Pro Ala Asp Leu Arg Gly Val Ala His Asn Asn Leu Met  
 1205 1210 1215  
 Ala Met Ala Gln Glu Thr Gly Asp Asn Leu Tyr Trp Gly Ser Val  
 1220 1225 1230  
 Thr Gly Ser Gln Ser Asn Ala Val Ser Pro Thr Pro Ala Pro Arg  
 1235 1240 1245  
 Asn Pro Ser Asp Pro Met Pro Gln Ala Pro Ala Leu Trp Ile Glu  
 1250 1255 1260  
 Thr Thr Ala Tyr Ala Leu Leu His Leu Leu Leu His Glu Gly Lys  
 1265 1270 1275  
 Ala Glu Met Ala Asp Gln Ala Ala Ala Trp Leu Thr Arg Gln Gly  
 1280 1285 1290  
 Ser Phe Gln Gly Gly Phe Arg Ser Thr Gln Asp Thr Val Ile Ala  
 1295 1300 1305  
 Leu Asp Ala Leu Ser Ala Tyr Trp Ile Ala Ser His Thr Thr Glu  
 1310 1315 1320  
 Glu Arg Gly Leu Asn Val Thr Leu Ser Ser Thr Gly Arg Asn Gly  
 1325 1330 1335  
 Phe Lys Ser His Ala Leu Gln Leu Asn Asn Arg Gln Ile Arg Gly  
 1340 1345 1350  
 Leu Glu Glu Glu Leu Gln Phe Ser Leu Gly Ser Lys Ile Asn Val  
 1355 1360 1365  
 Lys Val Gly Gly Asn Ser Lys Gly Thr Leu Lys Val Leu Arg Thr  
 1370 1375 1380  
 Tyr Asn Val Leu Asp Met Lys Asn Thr Thr Cys Gln Asp Leu Gln  
 1385 1390 1395  
 Ile Glu Val Thr Val Lys Gly His Val Glu Tyr Thr Met Glu Ala  
 1400 1405 1410  
 Asn Glu Asp Tyr Glu Asp Tyr Glu Tyr Asp Glu Leu Pro Ala Lys  
 1415 1420 1425  
 Asp Asp Pro Asp Ala Pro Leu Gln Pro Val Thr Pro Leu Gln Leu  
 1430 1435 1440  
 Phe Glu Gly Arg Arg Asn Arg Arg Arg Arg Glu Ala Pro Lys Val  
 1445 1450 1455  
 Val Glu Glu Gln Glu Ser Arg Val His Tyr Thr Val Cys Ile Trp  
 1460 1465 1470  
 Arg Asn Gly Lys Val Gly Leu Ser Gly Met Ala Ile Ala Asp Val

1475	Thr Leu Leu Ser Gly Phe	1480	His Ala Leu Arg Ala	1485	Asp Leu Glu Lys
1490	Leu Thr Ser Leu Ser Asp	1495	Arg Tyr Val Ser His	1500	Phe Glu Thr Glu
1505	Gly Pro His Val Leu Leu	1510	Phe Asp Ser Val	1515	Pro Thr Ser Arg
1520	Glu Cys Val Gly Phe Glu	1525	Ala Val Gln Glu Val	1530	Pro Val Gly Leu
1535	Val Gln Pro Ala Ser Ala	1540	Thr Leu Tyr Asp Tyr	1545	Tyr Asn Pro Glu
1550	Arg Arg Cys Ser Val Phe	1555	Tyr Gly Ala Pro Ser	1560	Lys Ser Arg Leu
1565	Leu Ala Thr Leu Cys Ser	1570	Ala Glu Val Cys Gln	1575	Cys Ala Glu Gly
1580	Lys Cys Pro Arg Gln Arg	1585	Arg Ala Leu Glu Arg	1590	Gly Leu Gln Asp
1595	Glu Asp Gly Tyr Arg Met	1600	Lys Phe Ala Cys Tyr	1605	Tyr Pro Arg Val
1610	Glu Tyr Gly Phe Gln Val	1615	Lys Val Leu Arg Glu	1620	Asp Ser Arg Ala
1625	Ala Phe Arg Leu Phe Glu	1630	Thr Lys Ile Thr Gln	1635	Val Leu His Phe
1640	Thr Lys Asp Val Lys Ala	1645	Ala Ala Asn Gln Met	1650	Arg Asn Phe Leu
1655	Val Arg Ala Ser Cys Arg	1660	Leu Arg Leu Glu Pro	1665	Gly Lys Glu Tyr
1670	Leu Ile Met Gly Leu Asp	1675	Gly Ala Thr Tyr Asp	1680	Leu Glu Gly His
1685	Pro Gln Tyr Leu Leu Asp	1690	Ser Asn Ser Trp Ile	1695	Glu Glu Met Pro
1700	Ser Glu Arg Leu Cys Arg	1705	Ser Thr Arg Gln Arg	1710	Ala Ala Cys Ala
1715	Gln Leu Asn Asp Phe Leu	1720	Gln Glu Tyr Gly Thr	1725	Gln Gly Cys Gln
1730	Val	1735		1740	

<210> 233  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens  
 <400> 233

Met Ile Glu Val Leu Thr Thr Thr	Asp Ser Gln Lys Leu Leu His Gln
1	5 10 15
Leu Asn Ala Leu Leu Glu Gln Glu	Ser Arg Cys Gln Pro Lys Val Cys
20	25 30
Gly Leu Arg Leu Ile Glu Ser Ala	His Asp Asn Gly Leu Arg Met Thr
35	40 45
Ala Arg Leu Arg Asp Phe Glu Val	Lys Asp Leu Leu Ser Leu Thr Gln
50	55 60
Phe Phe Gly Phe Asp Thr Glu Thr	Phe Ser Leu Ala Val Asn Leu Leu
65	70 75
Asp Arg Phe Leu Ser Lys Met Lys	Val Gln Pro Lys His Leu Gly Cys
85	90 95
Val Gly Leu Ser Cys Phe Tyr Leu	Ala Val Lys Ser Ile Glu Glu
100	105 110
Arg Asn Val Pro Leu Ala Thr Asp	Leu Ile Arg Ile Ser Gln Tyr Arg
115	120 125
Phe Thr Val Ser Asp Leu Met Arg	Met Glu Lys Ile Val Leu Glu Lys
130	135 140
Val Cys Trp Lys Val Lys Ala Thr	Thr Ala Phe Gln Phe Leu Gln Leu
145	150 155
Tyr Tyr Ser Leu Leu Gln Glu Asn	Leu Pro Leu Glu Arg Arg Asn Ser
165	170 175
Ile Asn Phe Glu Arg Leu Glu Ala	Gln Leu Lys Ala Cys His Cys Arg
180	185 190
Ile Ile Phe Ser Lys Ala Lys Pro	Ser Val Leu Ala Leu Ser Ile Ile
195	200 205

Ala Leu Glu Ile Gln Ala Gln Lys Cys Val Glu Leu Thr Glu Gly Ile  
 210 215 220  
 Glu Cys Leu Gln Lys His Ser Lys Ile Asn Gly Arg Asp Leu Thr Phe  
 225 230 235 240  
 Trp Gln Glu Leu Val Ser Lys Cys Leu Thr Glu Tyr Ser Ser Asn Lys  
 245 250 255  
 Cys Ser Lys Pro Asn Val Gln Lys Leu Lys Trp Ile Val Ser Gly Arg  
 260 265 270  
 Thr Ala Arg Gln Leu Lys His Ser Tyr Tyr Arg Ile Thr His Leu Pro  
 275 280 285  
 Thr Ile Pro Glu Met Val Pro  
 290 295

<210> 234  
 <211> 359  
 <212> PRT  
 <213> Homo sapiens  
 <400> 234

Met Ala Ala Val Ser Gly Leu Val Arg Arg Pro Leu Arg Glu Val Ser  
 1 5 10 15  
 Gly Leu Leu Lys Arg Arg Phe His Trp Thr Ala Pro Ala Ala Leu Gln  
 20 25 30  
 Val Thr Val Arg Asp Ala Ile Asn Gln Gly Met Asp Glu Leu Glu  
 35 40 45  
 Arg Asp Glu Lys Val Phe Leu Leu Gly Glu Glu Val Ala Gln Tyr Asp  
 50 55 60  
 Gly Ala Tyr Lys Val Ser Arg Gly Leu Trp Lys Lys Tyr Gly Asp Lys  
 65 70 75 80  
 Arg Ile Ile Asp Thr Pro Ile Ser Glu Met Gly Phe Ala Gly Ile Ala  
 85 90 95  
 Val Gly Ala Ala Met Ala Gly Leu Arg Pro Ile Cys Glu Phe Met Thr  
 100 105 110  
 Phe Asn Phe Ser Met Gln Ala Ile Asp Gln Val Ile Asn Ser Ala Ala  
 115 120 125  
 Lys Thr Tyr Tyr Met Ser Gly Gly Leu Gln Pro Val Pro Ile Val Phe  
 130 135 140  
 Arg Gly Pro Asn Gly Ala Ser Ala Gly Val Ala Ala Gln His Ser Gln  
 145 150 155 160  
 Cys Phe Ala Ala Trp Tyr Gly His Cys Pro Gly Leu Lys Val Val Ser  
 165 170 175  
 Pro Trp Asn Ser Glu Asp Ala Lys Gly Leu Ile Lys Ser Ala Ile Arg  
 180 185 190  
 Asp Asn Asn Pro Val Val Val Leu Glu Asn Glu Leu Met Tyr Gly Val  
 195 200 205  
 Pro Phe Glu Phe Leu Pro Glu Ala Gln Ser Lys Asp Phe Leu Ile Pro  
 210 215 220  
 Ile Gly Lys Ala Lys Ile Glu Arg Gln Gly Thr His Ile Thr Val Val  
 225 230 235 240  
 Ser His Ser Arg Pro Val Gly His Cys Leu Glu Ala Ala Ala Val Leu  
 245 250 255  
 Ser Lys Glu Gly Val Glu Cys Glu Val Ile Asn Met Arg Thr Ile Arg  
 260 265 270  
 Pro Met Asp Met Glu Thr Ile Glu Ala Ser Val Met Lys Thr Asn His  
 275 280 285  
 Leu Val Thr Val Glu Gly Gly Trp Pro Gln Phe Gly Val Gly Ala Glu  
 290 295 300  
 Ile Cys Ala Arg Ile Met Glu Gly Pro Ala Phe Asn Phe Leu Asp Ala  
 305 310 315 320  
 Pro Ala Val Arg Val Thr Gly Ala Asp Val Pro Met Pro Tyr Ala Lys  
 325 330 335  
 Ile Leu Glu Asp Asn Ser Ile Pro Gln Val Lys Asp Ile Ile Phe Ala  
 340 345 350  
 Ile Lys Lys Thr Leu Asn Ile  
 355

<210> 235  
 <211> 420  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Met Glu Val Pro Pro Arg Leu Ser His Val Pro Pro Pro Leu Phe Pro  
 1 5 10 15  
 Ser Ala Pro Ala Thr Leu Ala Ser Arg Ser Leu Ser His Trp Arg Pro  
 20 25 30  
 Arg Pro Pro Arg Gln Leu Ala Pro Leu Leu Pro Ser Leu Ala Pro Ser  
 35 40 45  
 Ser Ala Arg Gln Gly Ala Arg Arg Ala Gln Arg His Val Thr Ala Gln  
 50 55 60  
 Gln Pro Ser Arg Leu Ala Gly Gly Ala Ala Ile Lys Gly Gly Arg Arg  
 65 70 75 80  
 Arg Arg Pro Asp Leu Phe Arg Arg His Phe Lys Ser Ser Ser Ile Gln  
 85 90 95  
 Arg Ser Ala Ala Ala Ala Ala Ala Thr Arg Thr Ala Arg Gln His Pro  
 100 105 110  
 Pro Ala Asp Ser Ser Val Thr Met Glu Asp Met Asn Glu Tyr Ser Asn  
 115 120 125  
 Ile Glu Glu Phe Ala Glu Gly Ser Lys Ile Asn Ala Ser Lys Asn Gln  
 130 135 140  
 Gln Asp Asp Gly Lys Met Phe Ile Gly Gly Leu Ser Trp Asp Thr Ser  
 145 150 155 160  
 Lys Lys Asp Leu Thr Glu Tyr Leu Ser Arg Phe Gly Glu Val Val Asp  
 165 170 175  
 Cys Thr Ile Lys Thr Asp Pro Val Thr Gly Arg Ser Arg Gly Phe Gly  
 180 185 190  
 Phe Val Leu Phe Lys Asp Ala Ala Ser Val Asp Lys Val Leu Glu Leu  
 195 200 205  
 Lys Glu His Lys Leu Asp Gly Lys Leu Ile Asp Pro Lys Arg Ala Lys  
 210 215 220  
 Ala Leu Lys Gly Lys Glu Pro Pro Lys Lys Val Phe Val Gly Gly Leu  
 225 230 235 240  
 Ser Pro Asp Thr Ser Glu Glu Gln Ile Lys Glu Tyr Phe Gly Ala Phe  
 245 250 255  
 Gly Glu Ile Glu Asn Ile Glu Leu Pro Met Asp Thr Lys Thr Asn Glu  
 260 265 270  
 Arg Arg Gly Phe Cys Phe Ile Thr Tyr Thr Asp Glu Glu Pro Val Lys  
 275 280 285  
 Lys Leu Leu Glu Ser Arg Tyr His Gln Ile Gly Ser Gly Lys Cys Glu  
 290 295 300  
 Ile Lys Val Ala Gln Pro Lys Glu Val Tyr Arg Gln Gln Gln Gln Gln  
 305 310 315 320  
 Gln Lys Gly Gly Arg Gly Ala Ala Ala Gly Arg Gly Gly Thr Arg  
 325 330 335  
 Gly Arg Gly Arg Gly Gln Gly Gln Asn Trp Asn Gln Gly Phe Asn Asn  
 340 345 350  
 Tyr Tyr Asp Gln Gly Tyr Gly Asn Tyr Asn Ser Ala Tyr Gly Gly Asp  
 355 360 365  
 Gln Asn Tyr Ser Gly Tyr Gly Gly Tyr Asp Tyr Thr Gly Tyr Asn Tyr  
 370 375 380  
 Gly Asn Tyr Gly Tyr Gly Gln Gly Tyr Ala Asp Tyr Ser Gly Gln Gln  
 385 390 395 400  
 Ser Thr Tyr Gly Lys Ala Ser Arg Gly Gly Gly Asn His Gln Asn Asn  
 405 410 415  
 Tyr Gln Pro Tyr  
 420

<210> 236  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens  
 <400> 236

Met Asp Asp Ala His Glu Ser Pro Ser Asp Lys Gly Gly Glu Thr Gly  
 1 5 10 15  
 Glu Ser Asp Glu Thr Ala Ala Val Pro Gly Asp Pro Gly Ala Thr Asp  
 20 25 30  
 Thr Asp Gly Ile Pro Glu Glu Thr Asp Gly Asp Ala Asp Val Asp Leu  
 35 40 45  
 Lys Glu Ala Ala Ala Glu Glu Gly Glu Leu Glu Ser Gln Asp Val Ser  
 50 55 60

Asp Leu Thr Thr Val Glu Arg Glu Asp Ser Ser Leu Leu Asn Pro Ala  
 65 70 75 80  
 Ala Lys Lys Leu Lys Ile Asp Thr Lys Glu Lys Lys Glu Lys Lys Gln  
 85 90 95  
 Lys Val Asp Glu Asp Glu Ile Gln Lys Met Gln Ile Leu Val Ser Ser  
 100 105 110  
 Phe Ser Glu Glu Gln Leu Asn Arg Tyr Glu Met Tyr Arg Ser Ala  
 115 120 125  
 Phe Pro Lys Ala Ala Ile Lys Arg Leu Ile Gln Ser Ile Thr Gly Thr  
 130 135 140  
 Ser Val Ser Gln Asn Val Val Ile Ala Met Ser Gly Ile Ser Lys Val  
 145 150 155 160  
 Phe Val Gly Glu Val Val Glu Glu Ala Leu Asp Val Cys Glu Lys Trp  
 165 170 175  
 Gly Glu Met Pro Pro Leu Gln Pro Lys His Met Arg Glu Ala Val Arg  
 180 185 190  
 Arg Leu Lys Ser Lys Gly Gln Ile Pro Asn Ser Lys His Lys Lys Ile  
 195 200 205  
 Ile Phe Phe  
 210

<210> 237  
 <211> 382  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> X = A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W, or Y  
 <400> 237

Met Ala Leu Gln Gly Ile Ser Val Val Glu Leu Ser Gly Leu Ala Pro  
 1 5 10 15  
 Gly Arg Xaa Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val  
 20 25 30  
 Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg  
 35 40 45  
 Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Glu Pro Arg  
 50 55 60  
 Ala Ala Ala Ser Val Gln Ala Val Gly Cys Ala Ala Gly Ala Leu Pro  
 65 70 75 80  
 Pro Arg Cys His Gly Glu Thr Pro Ala Gly Pro Arg Asp Ser Ala Ala  
 85 90 95  
 Gly Lys Ser Lys Ala Tyr Leu Cys Gln Ala Glu Trp Ile Trp Pro Val  
 100 105 110  
 Gln Glu Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala  
 115 120 125  
 Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr  
 130 135 140  
 Ala Pro Leu Asn Leu Val Ala Asp Phe Ala Gly Gly Gly Leu Met Cys  
 145 150 155 160  
 Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys  
 165 170 175  
 Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser  
 180 185 190  
 Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg  
 195 200 205  
 Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg  
 210 215 220  
 Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe  
 225 230 235 240  
 Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro  
 245 250 255  
 Asn Gln Met Ser Thr Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala  
 260 265 270  
 Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp  
 275 280 285  
 Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val  
 290 295 300  
 His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu

305 310 315 320  
 Gln Asp Val Ser Pro Arg Leu Ala Pro Leu Leu Leu Asn Thr Pro Ala  
 325 330 335  
 Ile Pro Ser Ser Lys Gly Asp Pro Phe Ile Gly Glu His Thr Glu Glu  
 340 345 350  
 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn  
 355 360 365  
 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu  
 370 375 380

<210> 238  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens  
 <400> 238

Met Asp Asn Tyr Ala Asp Leu Ser Asp Thr Glu Leu Thr Thr Leu Leu  
 1 5 10 15  
 Arg Arg Tyr Asn Ile Pro His Gly Pro Val Val Gly Ser Thr Arg Arg  
 20 25 30  
 Leu Tyr Glu Lys Lys Ile Phe Glu Tyr Glu Thr Gln Arg Arg Leu  
 35 40 45  
 Ser Pro Pro Ser Ser Ser Ala Ala Ser Ser Tyr Ser Phe Ser Asp Leu  
 50 55 60  
 Asn Ser Thr Arg Gly Asp Ala Asp Met Tyr Asp Leu Pro Lys Lys Glu  
 65 70 75 80  
 Asp Ala Leu Leu Tyr Gln Ser Lys Gly Tyr Asn Asp Asp Tyr Tyr Glu  
 85 90 95  
 Glu Ser Tyr Phe Thr Thr Arg Thr Tyr Gly Glu Pro Glu Ser Ala Gly  
 100 105 110  
 Pro Ser Arg Ala Val Arg Gln Ser Val Thr Ser Phe Pro Asp Ala Asp  
 115 120 125  
 Ala Phe His His Gln Val His Asp Asp Asp Leu Leu Ser Ser Ser Glu  
 130 135 140  
 Glu Glu Cys Lys Asp Arg Glu Arg Pro Met Tyr Gly Arg Asp Ser Ala  
 145 150 155 160  
 Tyr Gln Ser Ile Thr His Tyr Arg Pro Val Ser Ala Ser Arg Ser Ser  
 165 170 175  
 Leu Asp Leu Ser Tyr Tyr Pro Thr Ser Ser Ser Thr Ser Phe Met Ser  
 180 185 190  
 Ser Ser Ser Ser Ser Ser Ser Trp Leu Thr Arg Arg Ala Ile Arg Pro  
 195 200 205  
 Glu Asn Arg Ala Pro Gly Ala Gly Leu Gly Gln Asp Arg Gln Val Pro  
 210 215 220  
 Leu Trp Gly Gln Leu Leu Phe Leu Val Phe Val Ile Val Leu Phe  
 225 230 235 240  
 Phe Ile Tyr His Phe Met Gln Ala Glu Glu Gly Asn Pro Phe  
 245 250

<210> 239  
 <211> 423  
 <212> PRT  
 <213> Homo sapiens  
 <400> 239

Met Ala Met Val Val Ser Ser Trp Arg Asp Pro Gln Asp Asp Val Ala  
 1 5 10 15  
 Gly Gly Asn Pro Gly Gly Pro Asn Pro Ala Ala Gln Ala Ala Arg Gly  
 20 25 30  
 Gly Gly Gly Gly Ala Gly Glu Gln Gln Gln Ala Gly Ser Gly Ala  
 35 40 45  
 Pro His Thr Pro Gln Thr Pro Gly Gln Pro Gly Ala Pro Ala Thr Pro  
 50 55 60  
 Gly Thr Ala Gly Asp Lys Gly Gln Gly Pro Pro Gly Ser Gly Gln Ser  
 65 70 75 80  
 Gln Gln His Ile Glu Cys Val Val Cys Gly Asp Lys Ser Ser Gly Lys  
 85 90 95  
 His Tyr Gly Gln Phe Thr Cys Glu Gly Cys Lys Ser Phe Phe Lys Arg  
 100 105 110  
 Ser Val Arg Arg Asn Leu Thr Tyr Thr Cys Arg Ala Asn Arg Asn Cys  
 115 120 125



Pro Ile Asp Gln His His Arg Asn Gln Cys Gln Tyr Cys Arg Leu Lys  
 130 135 140  
 Lys Cys Leu Lys Val Gly Met Arg Arg Glu Ala Val Gln Arg Gly Arg  
 145 150 155 160  
 Met Pro Pro Thr Gln Pro Asn Pro Gly Gln Tyr Ala Leu Thr Asn Gly  
 165 170 175  
 Asp Pro Leu Asn Gly His Cys Tyr Leu Ser Gly Tyr Ile Ser Leu Leu  
 180 185 190  
 Leu Arg Ala Glu Pro Tyr Pro Thr Ser Arg Tyr Gly Ser Gln Cys Met  
 195 200 205  
 Gln Pro Asn Asn Ile Met Gly Ile Glu Asn Ile Cys Glu Leu Ala Ala  
 210 215 220  
 Arg Leu Leu Phe Ser Ala Val Glu Trp Ala Arg Asn Ile Pro Phe Phe  
 225 230 235 240  
 Pro Asp Leu Gln Ile Thr Asp Gln Val Ser Leu Leu Arg Leu Thr Trp  
 245 250 255  
 Ser Glu Leu Phe Val Leu Asn Ala Ala Gln Cys Ser Met Pro Leu His  
 260 265 270  
 Val Ala Pro Leu Leu Ala Ala Ala Gly Leu His Ala Ser Pro Met Ser  
 275 280 285  
 Ala Asp Arg Val Val Ala Phe Met Asp His Ile Arg Ile Phe Gln Glu  
 290 295 300  
 Gln Val Glu Lys Leu Lys Ala Leu His Val Asp Ser Ala Glu Tyr Ser  
 305 310 315 320  
 Cys Leu Lys Ala Ile Val Leu Phe Thr Ser Asp Ala Cys Gly Leu Ser  
 325 330 335  
 Asp Ala Ala His Ile Glu Ser Leu Gln Glu Lys Ser Gln Cys Ala Leu  
 340 345 350  
 Glu Glu Tyr Val Arg Ser Gln Tyr Pro Asn Gln Pro Ser Arg Phe Gly  
 355 360 365  
 Lys Leu Leu Leu Arg Leu Pro Ser Leu Arg Thr Val Ser Ser Ser Val  
 370 375 380  
 Ile Glu Gln Leu Phe Phe Val Arg Leu Val Gly Lys Thr Pro Ile Glu  
 385 390 395 400  
 Thr Leu Ile Arg Asp Met Leu Leu Ser Gly Ser Ser Phe Asn Trp Pro  
 405 410 415  
 Tyr Met Ser Ile Gln Cys Ser  
 420

<210> 240  
 <211> 536  
 <212> PRT  
 <213> Homo sapiens  
 <400> 240

Met Lys Gln Ser Ser Asn Val Pro Ala Phe Leu Ser Lys Leu Trp Thr  
 1 5 10 15  
 Leu Val Glu Glu Thr His Thr Asn Glu Phe Ile Thr Trp Ser Gln Asn  
 20 25 30  
 Gly Gln Ser Phe Leu Val Leu Asp Glu Gln Arg Phe Ala Lys Glu Ile  
 35 40 45  
 Leu Pro Lys Tyr Phe Lys His Asn Asn Met Ala Ser Phe Val Arg Gln  
 50 55 60  
 Leu Asn Met Tyr Gly Phe Arg Lys Val Val His Ile Asp Ser Gly Ile  
 65 70 75 80  
 Val Lys Gln Glu Arg Asp Gly Pro Val Glu Phe Gln His Pro Tyr Phe  
 85 90 95  
 Lys Gln Gly Gln Asp Asp Leu Leu Glu Asn Ile Lys Arg Lys Val Ser  
 100 105 110  
 Ser Ser Lys Pro Glu Glu Asn Lys Ile Arg Gln Glu Asp Leu Thr Lys  
 115 120 125  
 Ile Ile Ser Ser Ala Gln Lys Val Gln Ile Lys Gln Glu Thr Ile Glu  
 130 135 140  
 Ser Arg Leu Ser Glu Leu Lys Ser Glu Asn Glu Ser Leu Trp Lys Glu  
 145 150 155 160  
 Val Ser Glu Leu Arg Ala Lys His Ala Gln Gln Gln Val Ile Arg  
 165 170 175  
 Lys Ile Val Gln Phe Ile Val Thr Leu Val Gln Asn Asn Gln Leu Val  
 180 185 190  
 Ser Leu Lys Arg Lys Arg Pro Leu Leu Leu Asn Thr Asn Gly Ala Gln

195  
 Lys Lys Asn Leu Phe Gln His Ile Val Lys Glu Pro Thr Asp Asn His  
 210 215 220  
 His His Lys Val Pro His Ser Arg Thr Glu Gly Leu Lys Pro Arg Glu  
 225 230 235 240  
 Arg Ile Ser Asp Asp Ile Ile Ile Tyr Asp Val Thr Asp Asp Asn Ala  
 245 250 255  
 Asp Glu Glu Asn Ile Pro Val Ile Pro Glu Thr Asn Glu Asp Val Ile  
 260 265 270  
 Ser Asp Pro Ser Asn Cys Ser Gln Tyr Pro Asp Ile Val Ile Val Glu  
 275 280 285  
 Asp Asp Asn Glu Asp Glu Tyr Ala Pro Val Ile Gln Ser Gly Glu Gln  
 290 295 300  
 Asn Glu Pro Ala Arg Glu Ser Leu Ser Ser Gly Ser Asp Gly Ser Ser  
 305 310 315 320  
 Pro Leu Met Ser Ser Ala Val Gln Leu Asn Gly Ser Ser Ser Leu Thr  
 325 330 335  
 Ser Glu Asp Pro Val Thr Met Met Asp Ser Ile Leu Asn Asp Asn Ile  
 340 345 350  
 Asn Leu Leu Gly Lys Val Glu Leu Leu Asp Tyr Leu Asp Ser Ile Asp  
 355 360 365  
 Cys Ser Leu Glu Asp Phe Gln Ala Met Leu Ser Gly Arg Gln Phe Ser  
 370 375 380  
 Ile Asp Pro Asp Leu Leu Val Asp Leu Phe Thr Ser Ser Val Gln Met  
 385 390 395 400  
 Asn Pro Thr Asp Tyr Ile Asn Asn Thr Lys Ser Glu Asn Lys Gly Leu  
 405 410 415  
 Glu Thr Thr Lys Asn Asn Val Val Gln Pro Val Ser Glu Glu Gly Arg  
 420 425 430  
 Lys Ser Lys Ser Lys Pro Asp Lys Gln Leu Ile Gln Tyr Thr Ala Phe  
 435 440 445  
 Pro Leu Leu Ala Phe Leu Asp Gly Asn Pro Ala Ser Ser Val Glu Gln  
 450 455 460  
 Ala Ser Thr Thr Ala Ser Ser Glu Val Leu Ser Ser Val Asp Lys Pro  
 465 470 475 480  
 Ile Glu Val Asp Glu Leu Leu Asp Ser Ser Leu Asp Pro Glu Pro Thr  
 485 490 495  
 Gln Ser Lys Leu Val Arg Leu Glu Pro Leu Thr Glu Ala Glu Ala Ser  
 500 505 510  
 Glu Ala Thr Leu Phe Tyr Leu Cys Glu Leu Ala Pro Ala Pro Leu Asp  
 515 520 525  
 Ser Asp Met Pro Leu Leu Asp Ser  
 530 535

<210> 241  
 <211> 616  
 <212> PRT  
 <213> Homo sapiens  
 <400> 241

Met Asn Ser Pro Gly Gly Arg Gly Lys Lys Lys Gly Ser Gly Gly Ala  
 1 5 10 15  
 Ser Asn Pro Val Pro Pro Arg Pro Pro Pro Pro Cys Leu Ala Pro Ala  
 20 25 30  
 Pro Pro Ala Ala Gly Pro Ala Pro Pro Glu Ser Pro His Lys Arg  
 35 40 45  
 Asn Leu Tyr Tyr Phe Ser Tyr Pro Leu Phe Val Gly Phe Ala Leu Leu  
 50 55 60  
 Arg Leu Val Ala Phe His Leu Gly Leu Leu Phe Val Trp Leu Cys Gln  
 65 70 75 80  
 Arg Phe Ser Arg Ala Leu Met Ala Ala Lys Arg Ser Ser Gly Ala Ala  
 85 90 95  
 Pro Ala Pro Ala Ser Ala Ser Ala Pro Ala Pro Val Pro Gly Gly Glu  
 100 105 110  
 Ala Glu Arg Val Arg Val Phe His Lys Gln Ala Phe Glu Tyr Ile Ser  
 115 120 125  
 Ile Ala Leu Arg Ile Asp Glu Asp Glu Lys Ala Gly Gln Lys Glu Gln  
 130 135 140  
 Ala Val Glu Trp Tyr Lys Lys Gly Ile Glu Glu Leu Glu Lys Gly Ile  
 145 150 155 160

Ala Val Ile Val Thr Gly Gln Gly Glu Gln Cys Glu Arg Ala Arg Arg  
 165 170 175  
 Leu Gln Ala Lys Met Met Thr Asn Leu Val Met Ala Lys Asp Arg Leu  
 180 185 190  
 Gln Leu Leu Glu Lys Met Gln Pro Val Leu Pro Phe Ser Lys Ser Gln  
 195 200 205  
 Thr Asp Val Tyr Asn Asp Ser Thr Asn Leu Ala Cys Arg Asn Gly His  
 210 215 220  
 Leu Gln Ser Glu Ser Gly Ala Val Pro Lys Arg Lys Asp Pro Leu Thr  
 225 230 235 240  
 His Thr Ser Asn Ser Leu Pro Arg Ser Lys Thr Val Met Lys Thr Gly  
 245 250 255  
 Ser Ala Gly Leu Ser Gly His His Arg Ala Pro Ser Tyr Ser Gly Leu  
 260 265 270  
 Ser Met Val Ser Gly Val Lys Gln Gly Ser Gly Pro Ala Pro Thr Thr  
 275 280 285  
 His Lys Gly Thr Pro Lys Thr Asn Arg Thr Asn Lys Pro Ser Thr Pro  
 290 295 300  
 Thr Thr Ala Thr Arg Lys Lys Asp Leu Lys Asn Phe Arg Asn Val  
 305 310 315 320  
 Asp Ser Asn Leu Ala Asn Leu Ile Met Asn Glu Ile Val Asp Asn Gly  
 325 330 335  
 Thr Ala Val Lys Phe Asp Asp Ile Ala Gly Gln Asp Leu Ala Lys Gln  
 340 345 350  
 Ala Leu Gln Glu Ile Val Ile Leu Pro Ser Leu Arg Pro Glu Leu Phe  
 355 360 365  
 Thr Gly Leu Arg Ala Pro Ala Arg Gly Leu Leu Leu Phe Gly Pro Pro  
 370 375 380  
 Gly Asn Gly Lys Thr Met Leu Ala Lys Ala Val Ala Ala Glu Ser Asn  
 385 390 395 400  
 Ala Thr Phe Phe Asn Ile Ser Ala Ala Ser Leu Thr Ser Lys Tyr Val  
 405 410 415  
 Gly Glu Gly Glu Lys Leu Val Arg Ala Leu Phe Ala Val Ala Arg Glu  
 420 425 430  
 Leu Gln Pro Ser Ile Ile Phe Ile Asp Glu Val Asp Ser Leu Leu Cys  
 435 440 445  
 Glu Arg Arg Glu Gly Glu His Asp Ala Ser Arg Arg Leu Lys Thr Glu  
 450 455 460  
 Phe Leu Ile Glu Phe Asp Gly Val Gln Ser Ala Gly Asp Asp Arg Val  
 465 470 475 480  
 Leu Val Met Gly Ala Thr Asn Arg Pro Gln Glu Leu Asp Glu Ala Val  
 485 490 495  
 Leu Arg Arg Phe Ile Lys Arg Val Tyr Val Ser Leu Pro Asn Glu Glu  
 500 505 510  
 Thr Arg Leu Leu Leu Leu Lys Asn Leu Leu Cys Lys Gln Gly Ser Pro  
 515 520 525  
 Leu Thr Gln Lys Glu Leu Ala Gln Leu Ala Arg Met Thr Asp Gly Tyr  
 530 535 540  
 Ser Gly Ser Asp Leu Thr Ala Leu Ala Lys Asp Ala Ala Leu Gly Pro  
 545 550 555 560  
 Ile Arg Glu Leu Lys Pro Glu Gln Val Lys Asn Met Ser Ala Ser Glu  
 565 570 575  
 Met Arg Asn Ile Arg Leu Ser Asp Phe Thr Glu Ser Leu Lys Lys Ile  
 580 585 590  
 Lys Arg Ser Val Ser Pro Gln Thr Leu Glu Ala Tyr Ile Arg Trp Asn  
 595 600 605  
 Lys Asp Phe Gly Asp Thr Thr Val  
 610 615

&lt;210&gt; 242

&lt;211&gt; 1979

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Met Ser Ser Trp Leu Gly Gly Leu Gly Ser Gly Leu Gly Gln Ser Leu  
 1 5 10 15  
 Gly Gln Val Gly Gly Ser Leu Ala Ser Leu Thr Gly Gln Ile Ser Asn  
 20 25 30  
 Phe Thr Lys Asp Met Leu Met Glu Gly Thr Glu Glu Val Glu Ala Glu

35 40 45  
 Leu Pro Asp Ser Arg Thr Lys Glu Ile Glu Ala Ile His Ala Ile Leu  
 50 55 60  
 Arg Ser Glu Asn Glu Arg Leu Lys Lys Leu Cys Thr Asp Leu Glu Glu  
 65 70 75 80  
 Lys His Glu Ala Ser Glu Ile Gln Ile Lys Gln Gln Ser Thr Ser Tyr  
 85 90 95  
 Arg Asn Gln Leu Gln Gln Lys Glu Val Glu Ile Ser His Leu Lys Ala  
 100 105 110  
 Arg Gln Ile Ala Leu Gln Asp Gln Leu Leu Lys Leu Gln Ser Ala Ala  
 115 120 125  
 Gln Ser Val Pro Ser Gly Ala Gly Val Pro Ala Thr Thr Ala Ser Ser  
 130 135 140  
 Ser Phe Ala Tyr Gly Ile Ser His His Pro Ser Ala Phe His Asp Asp  
 145 150 155 160  
 Asp Met Asp Phe Gly Asp Ile Ile Ser Ser Gln Gln Glu Ile Asn Arg  
 165 170 175  
 Leu Ser Asn Glu Val Ser Arg Leu Glu Ser Glu Val Gly His Trp Arg  
 180 185 190  
 His Ile Ala Gln Thr Ser Lys Ala Gln Gly Thr Asp Asn Ser Asp Gln  
 195 200 205  
 Ser Glu Ile Cys Lys Leu Gln Asn Ile Ile Lys Glu Leu Lys Gln Asn  
 210 215 220  
 Arg Ser Gln Glu Ile Asp Asp His Gln His Glu Met Ser Val Leu Gln  
 225 230 235 240  
 Asn Ala His Gln Gln Lys Leu Thr Glu Ile Ser Arg Arg His Arg Glu  
 245 250 255  
 Glu Leu Ser Asp Tyr Glu Glu Arg Ile Glu Glu Leu Glu Asn Leu Leu  
 260 265 270  
 Gln Gln Gly Gly Ser Gly Val Ile Glu Thr Asp Leu Ser Lys Ile Tyr  
 275 280 285  
 Glu Met Gln Lys Thr Ile Gln Val Leu Gln Ile Glu Lys Val Glu Ser  
 290 295 300  
 Thr Lys Lys Met Glu Gln Leu Glu Asp Lys Ile Lys Asp Ile Asn Lys  
 305 310 315 320  
 Lys Leu Ser Ser Ala Glu Asn Asp Arg Asp Ile Leu Arg Arg Glu Gln  
 325 330 335  
 Glu Gln Leu Asn Val Glu Lys Arg Gln Ile Met Glu Glu Cys Glu Asn  
 340 345 350  
 Leu Lys Leu Glu Cys Ser Lys Leu Gln Pro Ser Ala Val Lys Gln Ser  
 355 360 365  
 Asp Thr Met Thr Glu Lys Glu Arg Ile Leu Ala Gln Ser Ala Ser Val  
 370 375 380  
 Glu Glu Val Phe Arg Leu Gln Gln Ala Leu Ser Asp Ala Glu Asn Glu  
 385 390 395 400  
 Ile Met Arg Leu Ser Ser Leu Asn Gln Asp Asn Ser Leu Ala Glu Asp  
 405 410 415  
 Asn Leu Lys Leu Lys Met Arg Ile Glu Val Leu Glu Lys Glu Lys Ser  
 420 425 430  
 Leu Leu Ser Gln Glu Lys Glu Glu Leu Gln Met Ser Leu Leu Lys Leu  
 435 440 445  
 Asn Asn Glu Tyr Glu Val Ile Lys Ser Thr Ala Thr Arg Asp Ile Ser  
 450 455 460  
 Leu Asp Ser Glu Leu His Asp Leu Arg Leu Asn Leu Glu Ala Lys Glu  
 465 470 475 480  
 Gln Glu Leu Asn Gln Ser Ile Ser Glu Lys Glu Thr Leu Ile Ala Glu  
 485 490 495  
 Ile Glu Glu Leu Asp Arg Gln Asn Gln Glu Ala Thr Lys His Met Ile  
 500 505 510  
 Leu Ile Lys Asp Gln Leu Ser Lys Gln Gln Asn Glu Gly Asp Ser Ile  
 515 520 525  
 Ile Ser Lys Leu Lys Gln Asp Leu Asn Asp Glu Lys Lys Arg Val His  
 530 535 540  
 Gln Leu Glu Asp Asp Lys Met Asp Ile Thr Lys Glu Leu Asp Val Gln  
 545 550 555 560  
 Lys Glu Lys Leu Ile Gln Ser Glu Val Ala Leu Asn Asp Leu His Leu  
 565 570 575  
 Thr Lys Gln Lys Leu Glu Asp Lys Val Glu Asn Leu Val Asp Gln Leu  
 580 585 590

Asn Lys Ser Gln Glu Ser Asn Val Ser Ile Gln Lys Glu Asn Leu Glu  
 595 600 605  
 Leu Lys Glu His Ile Arg Gln Asn Glu Glu Glu Leu Ser Arg Ile Arg  
 610 615 620  
 Asn Glu Leu Met Gln Ser Leu Asn Gln Asp Ser Asn Ser Asn Phe Lys  
 625 630 635 640  
 Asp Thr Leu Leu Lys Glu Arg Glu Ala Glu Val Arg Asn Leu Lys Gln  
 645 650 655  
 Asn Leu Ser Glu Leu Glu Gln Leu Asn Glu Asn Leu Lys Lys Val Ala  
 660 665 670  
 Phe Asp Val Lys Met Glu Asn Glu Lys Leu Val Leu Ala Cys Glu Asp  
 675 680 685  
 Val Arg His Gln Leu Glu Glu Cys Leu Ala Gly Asn Asn Gln Leu Ser  
 690 695 700  
 Leu Glu Lys Asn Thr Ile Val Glu Thr Leu Lys Met Glu Lys Gly Glu  
 705 710 715 720  
 Ile Glu Ala Glu Leu Cys Trp Ala Lys Lys Arg Leu Leu Glu Glu Ala  
 725 730 735  
 Asn Lys Tyr Glu Lys Thr Ile Glu Glu Leu Ser Asn Ala Arg Asn Leu  
 740 745 750  
 Asn Thr Ser Ala Leu Gln Leu Glu His Glu His Leu Ile Lys Leu Asn  
 755 760 765  
 Gln Lys Lys Asp Met Glu Ile Ala Glu Leu Lys Lys Asn Ile Glu Gln  
 770 775 780  
 Met Asp Thr Asp His Lys Glu Thr Lys Asp Val Leu Ser Ser Ser Leu  
 785 790 795 800  
 Glu Glu Gln Lys Gln Leu Thr Gln Leu Ile Asn Lys Lys Glu Ile Phe  
 805 810 815  
 Ile Glu Lys Leu Lys Glu Arg Ser Ser Lys Leu Gln Glu Glu Leu Asp  
 820 825 830  
 Lys Tyr Ser Gln Ala Leu Arg Lys Asn Glu Ile Leu Arg Gln Thr Ile  
 835 840 845  
 Glu Glu Lys Asp Arg Ser Leu Gly Ser Met Lys Glu Glu Asn Asn His  
 850 855 860  
 Leu Gln Glu Glu Leu Glu Arg Leu Arg Glu Glu Gln Ser Arg Thr Ala  
 865 870 875 880  
 Pro Val Ala Asp Pro Lys Thr Leu Asp Ser Val Thr Glu Leu Ala Ser  
 885 890 895  
 Glu Val Ser Gln Leu Asn Thr Ile Lys Glu His Leu Glu Glu Ile  
 900 905 910  
 Lys His His Gln Lys Ile Ile Glu Asp Gln Asn Gln Ser Lys Met Gln  
 915 920 925  
 Leu Leu Gln Ser Leu Gln Glu Gln Lys Lys Glu Met Asp Glu Phe Arg  
 930 935 940  
 Tyr Gln His Glu Gln Met Asn Ala Thr His Thr Gln Leu Phe Leu Glu  
 945 950 955 960  
 Lys Asp Glu Glu Ile Lys Ser Leu Gln Lys Thr Ile Glu Gln Ile Lys  
 965 970 975  
 Thr Gln Leu His Glu Glu Arg Gln Asp Ile Gln Thr Asp Asn Ser Asp  
 980 985 990  
 Ile Phe Gln Glu Thr Lys Val Gln Ser Leu Asn Ile Glu Asn Gly Ser  
 995 1000 1005  
 Glu Lys His Asp Leu Ser Lys Ala Glu Thr Glu Arg Leu Val Lys  
 1010 1015 1020  
 Gly Ile Lys Glu Arg Glu Leu Glu Ile Lys Leu Leu Asn Glu Lys  
 1025 1030 1035  
 Asn Ile Ser Leu Thr Lys Gln Ile Asp Gln Leu Ser Lys Asp Glu  
 1040 1045 1050  
 Val Gly Lys Leu Thr Gln Ile Ile Gln Gln Lys Asp Leu Glu Ile  
 1055 1060 1065  
 Gln Ala Leu His Ala Arg Ile Ser Ser Thr Ser His Thr Gln Asp  
 1070 1075 1080  
 Val Val Tyr Leu Gln Gln Leu Leu Gln Ala Tyr Ala Met Glu Arg  
 1085 1090 1095  
 Glu Lys Val Phe Ala Val Leu Asn Glu Lys Thr Arg Glu Asn Ser  
 1100 1105 1110  
 His Leu Lys Thr Glu Tyr His Lys Met Met Asp Ile Val Ala Ala  
 1115 1120 1125  
 Lys Glu Ala Ala Leu Ile Lys Leu Gln Asp Glu Asn Lys Lys Leu

1130	Ser Thr Arg Phe Glu Ser	1135	Ser Gly Gln Asp Met	1140	Phe Arg Glu Thr
1145	Ile Gln Asn Leu Ser Arg	1150	Ile Arg Glu Lys	1155	Ile Glu Ile
1160	Asp Ala Leu Ser Gln Lys	1165	Gln Thr Leu Leu	1170	Val Leu Gln
1175	Thr Ser Ser Thr Gly Asn	1180	Ala Gly Gly Val	1185	Asn Ser His Gln
1190	Phe Glu Glu Leu Leu Gln	1195	Arg Asp Lys Leu	1200	Lys Gln Gln Val
1205	Lys Lys Met Glu Glu Trp	1210	Gln Gln Val Met	1215	Thr Val Gln
1220	Asn Met Gln His Glu Ser	1225	Gln Leu Gln Glu	1230	Glu Leu His Gln
1235	Leu Gln Ala Gln Val Leu	1240	Asp Ser Asp Asn	1245	Asn Ser Lys Leu
1250	Gln Val Asp Tyr Thr Gly	1255	Ile Gln Ser Tyr	1260	Glu Gln Asn Glu
1265	Thr Lys Leu Lys Asn Phe	1270	Gln Glu Leu Ala	1275	Gln Val Gln His
1280	Ser Ile Gly Gln Leu Cys	1285	Thr Lys Asp Leu	1290	Leu Leu Gly Lys
1295	Leu Asp Ile Ile Ser Pro	1300	Leu Ser Ser Ala	1305	Ser Leu Leu Thr
1310	Pro Gln Ser Ala Glu Cys	1315	Arg Ala Ser Lys	1320	Ser Glu Val Leu
1325	Ser Glu Ser Ser Glu Leu	1330	Gln Gln Glu Leu	1335	Glu Leu Arg
1340	Lys Ser Leu Gln Glu Lys	1345	Ala Thr Ile Arg	1350	Thr Leu Gln Glu
1355	Asn Asn His Arg Leu Ser	1360	Ser Ile Ala Ala	1365	Thr Ser Glu Leu
1370	Glu Arg Lys Glu His Glu	1375	Thr Asp Ser Glu	1380	Ile Lys Gln Leu
1385	Lys Glu Lys Gln Asp Val	1390	Gln Lys Leu Leu	1395	Lys Glu Lys Asp
1400	Leu Leu Ile Lys Ala Lys	1405	Asp Gln Leu Leu	1410	Ser Ser Asn Glu
1415	Asn Phe Thr Asn Lys Val	1420	Glu Asn Glu Leu	1425	Leu Arg Gln Ala
1430	Val Thr Asn Leu Lys Glu	1435	Ile Leu Ile Leu	1440	Glu Met Asp Ile
1445	Gly Lys Leu Lys Gly Glu	1450	Glu Lys Ile Val	1455	Glu Thr Tyr Arg
1460	Gly Lys Glu Thr Glu Tyr	1465	Ala Leu Gln Glu	1470	Thr Asn Met Lys
1475	Phe Ser Met Met Leu Arg	1480	Lys Glu Phe Glu	1485	Cys His Ser Met
1490	Lys Glu Lys Ala Leu Ala	1495	Glu Gln Leu Leu	1500	Lys Glu Lys Glu
1505	Gln Gly Lys Thr Gly Glu	1510	Asn Gln Leu Leu	1515	Asn Ala Val Lys
1520	Ser Met Gln Glu Lys Thr	1525	Val Phe Gln Gln	1530	Glu Arg Asp Gln
1535	Val Met Leu Ala Leu Lys	1540	Lys Gln Met Glu	1545	Asn Thr Ala Leu
1550	Gln Asn Glu Val Gln Arg	1555	Arg Asp Lys Glu	1560	Phe Arg Ser Asn
1565	Gln Glu Leu Glu Arg Leu	1570	Asn His Leu Leu	1575	Glu Ser Glu Asp
1580	Ser Tyr Thr Arg Glu Ala	1585	Ala Ala Glu Asp	1590	Arg Glu Ala Lys
1595	Leu Arg Lys Lys Val Thr	1600	Leu Glu Glu Lys	1605	Leu Val Ser Ser
1610	Ser Asn Ala Met Glu Asn	1615	Ser His Gln Ala	1620	Ser Val Gln Val
1625	Glu Ser Leu Gln Glu Gln	1630	Asn Val Val Ser	1635	Lys Gln Arg Asp
1640		1645		1650	

Glu Thr	Ala Leu Gln Leu Ser	Val Ser Gln Glu Gln	Val Lys Gln
1655	1660	1665	
Tyr Ala	Leu Ser Leu Ala Asn	Leu Gln Met Val Leu	Glu His Phe
1670	1675	1680	
Gln Gln	Glu Glu Lys Ala Met	Tyr Ser Ala Glu Leu	Glu Lys Gln
1685	1690	1695	
Lys Gln	Leu Ile Ala Glu Trp	Lys Lys Asn Ala Glu	Asn Leu Glu
1700	1705	1710	
Gly Lys	Val Ile Ser Leu Gln	Glu Cys Leu Asp Glu	Ala Asn Ala
1715	1720	1725	
Ala Leu	Asp Ser Ala Ser Arg	Leu Thr Glu Gln Leu	Asp Val Lys
1730	1735	1740	
Glu Glu	Gln Ile Glu Glu Leu	Lys Arg Gln Asn Glu	Leu Arg Gln
1745	1750	1755	
Glu Met	Leu Asp Asp Val Gln	Lys Lys Leu Met Ser	Leu Ala Asn
1760	1765	1770	
Ser Ser	Glu Gly Lys Val Asp	Lys Val Leu Met Arg	Asn Leu Phe
1775	1780	1785	
Ile Gly	His Phe His Thr Pro	Lys Asn Gln Arg His	Glu Val Leu
1790	1795	1800	
Arg Leu	Met Gly Ser Ile Leu	Gly Val Arg Arg Glu	Glu Met Glu
1805	1810	1815	
Gln Leu	Phe His Asp Asp Gln	Gly Ser Val Thr Arg	Trp Met Thr
1820	1825	1830	
Gly Trp	Leu Gly Gly Gly Ser	Lys Ser Val Pro Asn	Thr Pro Leu
1835	1840	1845	
Arg Pro	Asn Gln Gln Ser Val	Val Asn Ser Ser Phe	Ser Glu Leu
1850	1855	1860	
Phe Val	Lys Phe Leu Glu Thr	Glu Ser His Pro Ser	Ile Pro Pro
1865	1870	1875	
Pro Lys	Leu Ser Val His Asp	Met Lys Pro Leu Asp	Ser Pro Gly
1880	1885	1890	
Arg Arg	Lys Arg Asp Thr Asn	Ala Pro Glu Ser Phe	Lys Asp Thr
1895	1900	1905	
Ala Glu	Ser Arg Ser Gly Arg	Arg Thr Asp Val Asn	Pro Phe Leu
1910	1915	1920	
Ala Pro	Arg Ser Ala Ala Val	Pro Leu Ile Asn Pro	Ala Gly Leu
1925	1930	1935	
Gly Pro	Gly Gly Pro Gly His	Leu Leu Leu Lys Pro	Ile Ser Asp
1940	1945	1950	
Val Leu	Pro Thr Phe Thr Pro	Leu Pro Ala Leu Pro	Asp Asn Ser
1955	1960	1965	
Ala Gly	Val Val Leu Lys Asp	Leu Leu Lys Gln	
1970	1975		

<210> 243  
 <211> 522  
 <212> PRT  
 <213> Homo sapiens  
 <400> 243

Met Ser Ser Arg Pro Leu Glu Ser Pro	Pro Pro Tyr Arg Pro Asp Glu
1	5 10 15
Phe Lys Pro Asn His Tyr Ala Pro Ser	Asn Asp Ile Tyr Gly Gly Glu
20	25 30
Met His Val Arg Pro Met Leu Ser	Gln Pro Ala Tyr Ser Phe Tyr Pro
35	40 45
Glu Asp Glu Ile Leu His Phe Tyr	Lys Trp Thr Ser Pro Pro Gly Val
50	55 60
Ile Arg Ile Leu Ser Met Leu Ile Ile	Val Met Cys Ile Ala Ile Phe
65	70 75
Ala Cys Val Ala Ser Thr Leu Ala Trp	Asp Arg Gly Tyr Gly Thr Ser
85	90 95
Leu Leu Gly Gly Ser Val Gly Tyr Pro	Tyr Gly Gly Ser Gly Phe Gly
100	105 110
Ser Tyr Gly Ser Gly Tyr Gly Tyr	Gly Tyr Gly Tyr Gly Tyr Gly Tyr
115	120 125
Gly Gly Tyr Thr Asp Pro Arg Ala Ala	Lys Gly Phe Met Leu Ala Met
130	135 140
Ala Ala Phe Cys Phe Ile Ala Ala Leu	Val Ile Phe Val Thr Ser Val

145  
 Ile Arg Ser Glu Met Ser Arg Thr Arg Arg Tyr Tyr Leu Ser Val Ile  
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<210> 244  
 <211> 2181  
 <212> PRT  
 <213> Homo sapiens  
 <400> 244

Met Met Met Met Met Met Met Lys Lys Met Gln His Gln Arg Gln Gln  
 1 5 10 15  
 Gln Ala Asp His Ala Asn Glu Ala Asn Tyr Ala Arg Gly Thr Arg Leu  
 20 25 30  
 Pro Leu Ser Ser Gly Glu Gly Pro Thr Ser Gln Pro Asn Ser Ser Lys Gln  
 35 40 45  
 Thr Val Leu Ser Trp Gln Ala Ala Ile Asp Ala Ala Arg Gln Ala Lys  
 50 55 60  
 Ala Ala Gln Thr Met Ser Thr Ser Ala Pro Pro Pro Val Gly Ser Leu  
 65 70 75 80  
 Ser Gln Arg Lys Arg Gln Gln Tyr Ala Lys Ser Lys Lys Gln Gly Asn  
 85 90 95  
 Ser Ser Asn Ser Arg Pro Ala Arg Ala Leu Phe Cys Leu Ser Leu Asn  
 100 105 110  
 Asn Pro Ile Arg Arg Ala Cys Ile Ser Ile Val Glu Trp Lys Pro Phe  
 115 120 125



Asp Ile Phe Ile Leu Leu Ala Ile Phe Ala Asn Cys Val Ala Leu Ala  
 130 135 140  
 Ile Tyr Ile Pro Phe Pro Glu Asp Asp Ser Asn Ser Thr Asn His Asn  
 145 150 155 160  
 Leu Glu Lys Val Glu Tyr Ala Phe Leu Ile Ile Phe Thr Val Glu Thr  
 165 170 175  
 Phe Leu Lys Ile Ile Ala Tyr Gly Leu Leu Leu His Pro Asn Ala Tyr  
 180 185 190  
 Val Arg Asn Gly Trp Asn Leu Leu Asp Phe Val Ile Val Ile Val Gly  
 195 200 205  
 Leu Phe Ser Val Ile Leu Glu Gln Leu Thr Lys Glu Thr Glu Gly Gly  
 210 215 220  
 Asn His Ser Ser Gly Lys Ser Gly Gly Phe Asp Val Lys Ala Leu Arg  
 225 230 235 240  
 Ala Phe Arg Val Leu Arg Pro Leu Arg Leu Val Ser Gly Val Pro Ser  
 245 250 255  
 Leu Gln Val Val Leu Asn Ser Ile Ile Lys Ala Met Val Pro Leu Leu  
 260 265 270  
 His Ile Ala Leu Leu Val Leu Phe Val Ile Ile Ile Tyr Ala Ile Ile  
 275 280 285  
 Gly Leu Glu Leu Phe Ile Gly Lys Met His Lys Thr Cys Phe Phe Ala  
 290 295 300  
 Asp Ser Asp Ile Val Ala Glu Glu Asp Pro Ala Pro Cys Ala Phe Ser  
 305 310 315 320  
 Gly Asn Gly Arg Gln Cys Thr Ala Asn Gly Thr Glu Cys Arg Ser Gly  
 325 330 335  
 Trp Val Gly Pro Asn Gly Gly Ile Thr Asn Phe Asp Asn Phe Ala Phe  
 340 345 350  
 Ala Met Leu Thr Val Phe Gln Cys Ile Thr Met Glu Gly Trp Thr Asp  
 355 360 365  
 Val Leu Tyr Trp Val Asn Asp Ala Ile Gly Trp Glu Trp Pro Trp Val  
 370 375 380  
 Tyr Phe Val Ser Leu Ile Ile Leu Gly Ser Phe Phe Val Leu Asn Leu  
 385 390 395 400  
 Val Leu Gly Val Leu Ser Gly Glu Phe Ser Lys Glu Arg Glu Lys Ala  
 405 410 415  
 Lys Ala Arg Gly Asp Phe Gln Lys Leu Arg Glu Lys Gln Gln Leu Glu  
 420 425 430  
 Glu Asp Leu Lys Gly Tyr Leu Asp Trp Ile Thr Gln Ala Glu Asp Ile  
 435 440 445  
 Asp Pro Glu Asn Glu Glu Glu Gly Gly Glu Glu Gly Lys Arg Asn Thr  
 450 455 460  
 Ser Met Pro Thr Ser Glu Thr Glu Ser Val Asn Thr Glu Asn Val Ser  
 465 470 475 480  
 Gly Glu Gly Glu Asn Arg Gly Cys Cys Gly Ser Leu Trp Cys Trp Trp  
 485 490 495  
 Arg Arg Arg Gly Ala Ala Lys Ala Gly Pro Ser Gly Cys Arg Arg Trp  
 500 505 510  
 Gly Gln Ala Ile Ser Lys Ser Lys Leu Ser Arg Arg Trp Arg Arg Trp  
 515 520 525  
 Asn Arg Phe Asn Arg Arg Arg Cys Arg Ala Ala Val Lys Ser Val Thr  
 530 535 540  
 Phe Tyr Trp Leu Val Ile Val Leu Val Phe Leu Asn Thr Leu Thr Ile  
 545 550 555 560  
 Ser Ser Glu His Tyr Asn Gln Pro Asp Trp Leu Thr Gln Ile Gln Asp  
 565 570 575  
 Ile Ala Asn Lys Val Leu Leu Ala Leu Phe Thr Cys Glu Met Leu Val  
 580 585 590  
 Lys Met Tyr Ser Leu Gly Leu Gln Ala Tyr Phe Val Ser Leu Phe Asn  
 595 600 605  
 Arg Phe Asp Cys Phe Val Val Cys Gly Gly Ile Thr Glu Thr Ile Leu  
 610 615 620  
 Val Glu Leu Glu Ile Met Ser Pro Leu Gly Ile Ser Val Phe Arg Cys  
 625 630 635 640  
 Val Arg Leu Leu Arg Ile Phe Lys Val Thr Arg His Trp Thr Ser Leu  
 645 650 655  
 Ser Asn Leu Val Ala Ser Leu Leu Asn Ser Met Lys Ser Ile Ala Ser  
 660 665 670  
 Leu Leu Leu Leu Leu Phe Leu Phe Ile Ile Ile Phe Ser Leu Leu Gly

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Trp	Tyr	Val	Val	Asn	Ser	Ser	Pro	Phe	Glu	Tyr	Met	Met	Phe	Val
1220						1225					1230			
Leu	Ile	Met	Leu	Asn	Thr	Leu	Cys	Leu	Ala	Met	Gln	His	Tyr	Glu
1235						1240					1245			
Gln	Ser	Lys	Met	Phe	Asn	Asp	Ala	Met	Asp	Ile	Leu	Asn	Met	Val
1250						1255					1260			
Phe	Thr	Gly	Val	Phe	Thr	Val	Glu	Met	Val	Leu	Lys	Val	Ile	Ala
1265						1270					1275			
Phe	Lys	Pro	Lys	Gly	Tyr	Phe	Ser	Asp	Ala	Trp	Asn	Thr	Phe	Asp
1280						1285					1290			
Ser	Leu	Ile	Val	Ile	Gly	Ser	Ile	Ile	Asp	Val	Ala	Leu	Ser	Glu
1295						1300					1305			
Ala	Asp	Pro	Thr	Glu	Ser	Glu	Asn	Val	Pro	Val	Pro	Thr	Ala	Thr
1310						1315					1320			
Pro	Gly	Asn	Ser	Glu	Glu	Ser	Asn	Arg	Ile	Ser	Ile	Thr	Phe	Phe
1325						1330					1335			
Arg	Leu	Phe	Arg	Val	Met	Arg	Leu	Val	Lys	Leu	Leu	Ser	Arg	Gly
1340						1345					1350			
Glu	Gly	Ile	Arg	Thr	Leu	Leu	Trp	Thr	Phe	Ile	Lys	Ser	Phe	Gln
1355						1360					1365			
Ala	Leu	Pro	Tyr	Val	Ala	Leu	Leu	Ile	Ala	Met	Leu	Phe	Phe	Ile
1370						1375					1380			
Tyr	Ala	Val	Ile	Gly	Met	Gln	Met	Phe	Gly	Lys	Val	Ala	Met	Arg
1385						1390					1395			
Asp	Asn	Asn	Gln	Ile	Asn	Arg	Asn	Asn	Asn	Phe	Gln	Thr	Phe	Pro
1400						1405					1410			
Gln	Ala	Val	Leu	Leu	Leu	Phe	Arg	Cys	Ala	Thr	Gly	Glu	Ala	Trp
1415						1420					1425			
Gln	Glu	Ile	Met	Leu	Ala	Cys	Leu	Pro	Gly	Lys	Leu	Cys	Asp	Pro
1430						1435					1440			
Glu	Ser	Asp	Tyr	Asn	Pro	Gly	Glu	Glu	Tyr	Thr	Cys	Gly	Ser	Asn
1445						1450					1455			
Phe	Ala	Ile	Val	Tyr	Phe	Ile	Ser	Phe	Tyr	Met	Leu	Cys	Ala	Phe
1460						1465					1470			
Leu	Ile	Ile	Asn	Leu	Phe	Val	Ala	Val	Ile	Met	Asp	Asn	Phe	Asp
1475						1480					1485			
Tyr	Leu	Thr	Arg	Asp	Trp	Ser	Ile	Leu	Gly	Pro	His	His	Leu	Asp
1490						1495					1500			
Glu	Phe	Lys	Arg	Ile	Trp	Ser	Glu	Tyr	Asp	Pro	Glu	Ala	Lys	Gly
1505						1510					1515			
Arg	Ile	Lys	His	Leu	Asp	Val	Val	Thr	Leu	Leu	Arg	Arg	Ile	Gln
1520						1525					1530			
Pro	Pro	Leu	Gly	Phe	Gly	Lys	Leu	Cys	Pro	His	Arg	Val	Ala	Cys
1535						1540					1545			
Lys	Arg	Leu	Val	Ala	Met	Asn	Met	Pro	Leu	Asn	Ser	Asp	Gly	Thr
1550						1555					1560			
Val	Met	Phe	Asn	Ala	Thr	Leu	Phe	Ala	Leu	Val	Arg	Thr	Ala	Leu
1565						1570					1575			
Lys	Ile	Lys	Thr	Glu	Gly	Asn	Leu	Glu	Gln	Ala	Asn	Glu	Glu	Leu
1580						1585					1590			
Arg	Ala	Val	Ile	Lys	Lys	Ile	Trp	Lys	Lys	Thr	Ser	Met	Lys	Leu
1595						1600					1605			
Leu	Asp	Gln	Val	Val	Pro	Pro	Ala	Gly	Asp	Asp	Glu	Val	Thr	Val
1610						1615					1620			
Gly	Lys	Phe	Tyr	Ala	Thr	Phe	Leu	Ile	Gln	Asp	Tyr	Phe	Arg	Lys
1625						1630					1635			
Phe	Lys	Lys	Arg	Lys	Glu	Gln	Gly	Leu	Val	Gly	Lys	Tyr	Pro	Ala
1640						1645					1650			
Lys	Asn	Thr	Thr	Ile	Ala	Leu	Gln	Ala	Gly	Leu	Arg	Thr	Leu	His
1655						1660					1665			
Asp	Ile	Gly	Pro	Glu	Ile	Arg	Arg	Ala	Ile	Ser	Cys	Asp	Leu	Gln
1670						1675					1680			
Asp	Asp	Glu	Pro	Glu	Glu	Thr	Lys	Arg	Glu	Glu	Glu	Asp	Asp	Val
1685						1690					1695			
Phe	Lys	Arg	Asn	Gly	Ala	Leu	Leu	Gly	Asn	His	Val	Asn	His	Val
1700						1705					1710			
Asn	Ser	Asp	Arg	Arg	Asp	Ser	Leu	Gln	Gln	Thr	Asn	Thr	Thr	His
1715						1720					1725			
Arg	Pro	Leu	His	Val	Gln	Arg	Pro	Ser	Ile	Pro	Pro	Ala	Ser	Asp

1730	Thr Glu Lys Pro Leu Phe	1735	Pro Ala Gly Asn	1740	Ser Val Cys His
1745	Asn His His Asn His Asn	1750	Ile Gly Lys Gln	1755	Pro Thr Ser
1760	Thr Asn Ala Asn Leu Asn	1765	Ala Asn Met Ser	1770	Lys Ala Ala His
1775	Gly Lys Arg Pro Ser Ile	1780	Asn Leu Glu His	1785	Val Ser Glu Asn
1790	Gly His His Ser Ser His	1795	His Asp Arg Glu	1800	Pro Gln Arg Arg
1805	Ser Ser Val Lys Arg Thr	1810	Tyr Tyr Glu Thr	1815	Tyr Ile Arg Ser
1820	Asp Ser Gly Asp Glu Gln	1825	Pro Thr Ile Cys	1830	Arg Glu Asp Pro
1835	Glu Ile His Gly Tyr Phe	1840	Asp Pro His Cys	1845	Leu Gly Glu Gln
1850	Glu Tyr Phe Ser Ser Glu	1855	Cys Tyr Glu Asp	1860	Asp Ser Ser Pro
1865	Thr Trp Ser Arg Gln Asn	1870	Gly Tyr Tyr Ser	1875	Arg Tyr Pro Gly
1880	Arg Asn Ile Asp Ser Glu	1885	Pro Arg Gly Tyr	1890	His His Pro Gln
1895	Gly Phe Leu Glu Asp Asp	1900	Ser Pro Val Cys	1905	Tyr Asp Ser Arg
1910	Arg Ser Pro Arg Arg Arg	1915	Leu Pro Pro Thr	1920	Pro Ala Ser His
1925	Arg Arg Ser Ser Phe Asn	1930	Glu Cys Leu Arg	1935	Arg Gln Ser Ser
1940	Gln Glu Glu Val Pro Ser	1945	Pro Ile Phe Pro	1950	His Arg Thr Ala
1955	Leu Pro Leu His Leu Met	1960	Gln Gln Ile Met	1965	Ala Val Ala Gly
1970	Leu Asp Ser Ser Lys Ala	1975	Lys Tyr Ser Pro	1980	Ser His Ser Thr
1985	Arg Ser Trp Ala Thr Pro	1990	Ala Thr Pro Pro	1995	Tyr Arg Asp Trp
2000	Thr Pro Cys Tyr Thr Pro	2005	Ile Gln Val Glu	2010	Gln Ser Glu Ala
2015	Leu Asp Gln Val Asn Gly	2020	Leu Pro Ser Leu	2025	His Arg Ser Ser
2030	Trp Tyr Thr Asp Glu Pro	2035	Ile Ser Tyr Arg	2040	Thr Phe Thr Pro
2045	Ala Ser Leu Thr Val Pro	2050	Ser Phe Arg Asn	2055	Lys Asn Ser Asp
2060	Lys Gln Arg Ser Ala Asp	2065	Leu Val Glu Ala	2070	Val Leu Ile Ser
2075	Glu Gly Leu Gly Arg Tyr	2080	Arg Asp Pro Lys	2085	Phe Val Ser Ala
2090	Thr Lys His Glu Ile Ala	2095	Ala Cys Asp Leu	2100	Thr Ile Asp Glu
2105	Met Glu Ser Ala Ala Ser	2110	Leu Leu Asn Gly	2115	Asn Val Arg Pro
2120	Arg Ala Asn Gly Asp Val	2125	Pro Leu Ser His	2130	Arg Gln Asp Tyr
2135	Glu Leu Gln Asp Phe Gly	2140	Gly Tyr Ser Asp	2145	Glu Glu Pro Asp
2150	Pro Gly Arg Asp Glu Glu	2155	Leu Ala Asp Glu	2160	Met Ile Cys Ile
2165	Thr Thr Leu	2170		2175	
2180					

&lt;210&gt; 245

&lt;211&gt; 377

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 245

Met Glu Leu Ser Val Leu Leu Phe Leu Ala Leu Leu Thr Gly Leu Leu  
1 5 10 15

Leu Leu Leu Val Gln Arg His Pro Asn Ser His Gly Thr Leu Pro Pro  
 20 25 30  
 Gly Pro Arg Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Met Asp Arg  
 35 40 45  
 Arg Gly Leu Leu Lys Ser Phe Leu Arg Phe Arg Glu Lys Tyr Gly Asp  
 50 55 60  
 Val Phe Thr Val His Leu Gly Pro Arg Pro Val Val Met Leu Cys Gly  
 65 70 75 80  
 Val Glu Ala Ile Arg Glu Ala Leu Val Asp Asn Ala Glu Ala Phe Ser  
 85 90 95  
 Gly Arg Gly Lys Ile Val Ile Met Asp Pro Val Tyr Gln Gly Tyr Gly  
 100 105 110  
 Met Leu Phe Ala Asn Gly Asn Arg Trp Lys Val Leu Arg Arg Phe Ser  
 115 120 125  
 Val Thr Thr Met Arg Asp Phe Gly Met Gly Lys Arg Ser Val Glu Glu  
 130 135 140  
 Arg Ile Gln Asp Glu Ala Gln Cys Leu Ile Glu Glu Leu Arg Lys Ser  
 145 150 155 160  
 Lys Gly Ala Leu Val Asp Pro Thr Phe Leu Phe His Ser Ile Thr Ala  
 165 170 175  
 Asn Ile Ile Cys Ser Ile Ile Phe Gly Lys Arg Phe His Tyr Gln Asp  
 180 185 190  
 Gln Glu Phe Leu Lys Thr Leu Asn Leu Phe Cys Gln Ser Phe Leu Leu  
 195 200 205  
 Ile Ser Ser Ile Ser Ser Gln Leu Phe Glu Leu Phe Ser Gly Phe Leu  
 210 215 220  
 Lys Tyr Phe Pro Gly Ala His Arg Gln Val Tyr Lys Asn Leu Gln Glu  
 225 230 235 240  
 Ile Asn Ala Tyr Ile Gly His Ser Val Glu Lys His Arg Glu Thr Leu  
 245 250 255  
 Asp Pro Ser Ala Pro Arg Asp Leu Ile Asp Thr Tyr Leu Leu His Met  
 260 265 270  
 Glu Lys Glu Lys Ser Asn Pro His Ser Glu Phe Ser His Gln Asn Leu  
 275 280 285  
 Ile Ile Asn Thr Leu Ser Leu Phe Phe Ala Gly Thr Glu Thr Thr Ser  
 290 295 300  
 Thr Thr Leu Arg Tyr Gly Phe Leu Leu Met Leu Lys Tyr Pro His Val  
 305 310 315 320  
 Ala Glu Arg Val Tyr Lys Glu Ile Glu Gln Val Val Gly Pro His Arg  
 325 330 335  
 Pro Pro Ala Leu Asp Asp Arg Ala Lys Met Pro Tyr Thr Glu Ala Val  
 340 345 350  
 Ile Arg Glu Ile Gln Arg Phe Ala Asp Leu Leu Pro Met Gly Val Pro  
 355 360 365  
 His Ile Val Thr Gln His Thr Ser Phe  
 370 375

<210> 246  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens  
 <400> 246

Met Ala Glu Lys Phe Asp Cys His Tyr Cys Arg Asp Pro Leu Gln Gly  
 1 5 10 15  
 Lys Lys Tyr Val Gln Lys Asp Gly His His Cys Cys Leu Lys Cys Phe  
 20 25 30  
 Asp Lys Phe Cys Ala Asn Thr Cys Val Glu Cys Arg Lys Pro Ile Gly  
 35 40 45  
 Ala Asp Ser Lys Glu Val His Tyr Lys Asn Arg Phe Trp His Asp Thr  
 50 55 60  
 Cys Phe Arg Cys Ala Lys Cys Leu His Pro Leu Ala Asn Glu Thr Phe  
 65 70 75 80  
 Val Ala Lys Asp Asn Lys Ile Leu Cys Asn Lys Cys Thr Thr Arg Glu  
 85 90 95  
 Asp Ser Pro Lys Cys Lys Gly Cys Phe Lys Ala Ile Val Ala Gly Asp  
 100 105 110  
 Gln Asn Val Glu Tyr Lys Gly Thr Val Trp His Lys Asp Cys Phe Thr  
 115 120 125  
 Cys Ser Asn Cys Lys Gln Val Ile Gly Thr Gly Ser Phe Phe Pro Lys

130 135 140  
 Gly Glu Asp Phe Tyr Cys Val Thr Cys His Glu Thr Lys Phe Ala Lys  
 145 150 155 160  
 His Cys Val Lys Cys Asn Lys Ala Ile Thr Ser Gly Gly Ile Thr Tyr  
 165 170 175  
 Gln Asp Gln Pro Trp His Ala Asp Cys Phe Val Cys Val Thr Cys Ser  
 180 185 190  
 Lys Lys Leu Ala Gly Gln Arg Phe Thr Ala Val Glu Asp Gln Tyr Tyr  
 195 200 205  
 Cys Val Asp Cys Tyr Lys Asn Phe Val Ala Lys Lys Cys Ala Gly Cys  
 210 215 220  
 Lys Asn Pro Ile Thr Gly Phe Gly Lys Gly Ser Ser Val Val Ala Tyr  
 225 230 235 240  
 Glu Gly Gln Ser Trp His Asp Tyr Cys Phe His Cys Lys Lys Cys Ser  
 245 250 255  
 Val Asn Leu Ala Asn Lys Arg Phe Val Phe His Gln Glu Gln Val Tyr  
 260 265 270  
 Cys Pro Asp Cys Ala Lys Lys Leu  
 275 280

<210> 247  
 <211> 267  
 <212> PRT  
 <213> Homo sapiens  
 <400> 247

Met Ala Ser Pro Ser Lys Gly Asn Asp Leu Phe Ser Pro Asp Glu Glu  
 1 5 10 15  
 Gly Pro Ala Val Val Ala Gly Pro Gly Pro Gly Pro Gly Gly Ala Glu  
 20 25 30  
 Gly Ala Ala Glu Glu Arg Arg Val Lys Val Ser Ser Leu Pro Phe Ser  
 35 40 45  
 Val Glu Ala Leu Met Ser Asp Lys Lys Pro Pro Lys Glu Ala Ser Pro  
 50 55 60  
 Leu Pro Ala Glu Ser Ala Ser Ala Gly Ala Thr Leu Arg Pro Leu Leu  
 65 70 75 80  
 Leu Ser Gly His Gly Ala Arg Glu Ala His Ser Pro Gly Pro Leu Val  
 85 90 95  
 Lys Pro Phe Glu Thr Ala Ser Val Lys Ser Glu Asn Ser Glu Asp Gly  
 100 105 110  
 Ala Ala Trp Met Gln Glu Pro Gly Arg Tyr Ser Pro Pro Arg His  
 115 120 125  
 Met Ser Pro Thr Thr Cys Thr Leu Arg Lys His Lys Thr Asn Arg Lys  
 130 135 140  
 Pro Arg Thr Pro Phe Thr Thr Ser Gln Leu Leu Ala Leu Glu Arg Lys  
 145 150 155 160  
 Phe Arg Gln Lys Gln Tyr Leu Ser Ile Ala Glu Arg Ala Glu Phe Ser  
 165 170 175  
 Ser Ser Leu Asn Leu Thr Glu Thr Gln Val Lys Ile Trp Phe Gln Asn  
 180 185 190  
 Arg Arg Ala Lys Ala Lys Arg Leu Gln Glu Ala Glu Leu Glu Lys Leu  
 195 200 205  
 Lys Met Ala Ala Lys Pro Met Leu Pro Ser Ser Phe Ser Leu Pro Phe  
 210 215 220  
 Pro Ile Ser Ser Pro Leu Gln Ala Ala Ser Ile Tyr Gly Ala Ser Tyr  
 225 230 235 240  
 Pro Phe His Arg Pro Val Leu Pro Ile Pro Pro Val Gly Leu Tyr Ala  
 245 250 255  
 Thr Pro Val Gly Tyr Gly Met Tyr His Leu Ser  
 260 265

<210> 248  
 <211> 387  
 <212> PRT  
 <213> Homo sapiens  
 <400> 248

Met Pro Gly His Leu Gln Glu Gly Phe Gly Cys Val Val Thr Asn Arg  
 1 5 10 15  
 Phe Asp Gln Leu Phe Asp Asp Glu Ser Asp Pro Phe Glu Val Leu Lys  
 20 25 30

Ala Ala Glu Asn Lys Lys Lys Glu Ala Gly Gly Gly Gly Val Gly Gly  
 35 40 45  
 Pro Gly Ala Lys Ser Ala Ala Gln Ala Ala Ala Gln Thr Asn Ser Asn  
 50 55 60  
 Ala Ala Gly Lys Gln Leu Arg Lys Glu Ser Gln Lys Asp Arg Lys Asn  
 65 70 75 80  
 Pro Leu Pro Pro Ser Val Gly Val Val Asp Lys Lys Glu Glu Thr Gln  
 85 90 95  
 Pro Pro Val Ala Leu Lys Lys Glu Gly Ile Arg Arg Val Gly Arg Arg  
 100 105 110  
 Pro Asp Gln Gln Leu Gln Gly Glu Gly Lys Ile Ile Asp Arg Arg Pro  
 115 120 125  
 Glu Arg Arg Pro Pro Arg Glu Arg Arg Phe Glu Lys Pro Leu Glu Glu  
 130 135 140  
 Lys Gly Glu Gly Gly Glu Phe Ser Val Asp Arg Pro Ile Ile Asp Arg  
 145 150 155 160  
 Pro Ile Arg Gly Arg Gly Gly Leu Gly Arg Gly Arg Gly Arg Gly  
 165 170 175  
 Arg Gly Met Gly Arg Gly Asp Gly Phe Asp Ser Arg Gly Lys Arg Glu  
 180 185 190  
 Phe Asp Arg His Ser Gly Ser Asp Arg Ser Gly Leu Lys His Glu Asp  
 195 200 205  
 Lys Arg Gly Gly Ser Gly Ser His Asn Trp Gly Thr Val Lys Asp Glu  
 210 215 220  
 Leu Thr Asp Leu Asp Gln Ser Asn Val Thr Glu Glu Thr Pro Glu Gly  
 225 230 235 240  
 Glu Glu His His Pro Val Ala Asp Thr Glu Asn Lys Glu Asn Glu Val  
 245 250 255  
 Glu Glu Val Lys Glu Glu Gly Pro Lys Glu Met Thr Leu Asp Glu Trp  
 260 265 270  
 Lys Ala Ile Gln Asn Lys Asp Arg Ala Lys Val Glu Phe Asn Ile Arg  
 275 280 285  
 Lys Pro Asn Glu Gly Ala Asp Gly Gln Trp Lys Lys Gly Phe Val Leu  
 290 295 300  
 His Lys Ser Lys Ser Glu Glu Ala His Ala Glu Asp Ser Val Met Asp  
 305 310 315 320  
 His His Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln Leu Glu Ile  
 325 330 335  
 Asn Phe Gly Asp Leu Gly Arg Pro Gly Arg Gly Gly Arg Gly Arg  
 340 345 350  
 Gly Gly Arg Gly Arg Gly Gly Arg Pro Asn Arg Gly Ser Arg Thr Asp  
 355 360 365  
 Lys Ser Ser Ala Ser Ala Pro Asp Val Asp Asp Pro Glu Ala Phe Pro  
 370 375 380  
 Ala Leu Ala  
 385

<210> 249  
 <211> 239  
 <212> PRT  
 <213> Homo sapiens  
 <400> 249

Met Ala Ser Thr Ala Val Gln Leu Leu Gly Phe Leu Leu Ser Phe Leu  
 1 5 10 15  
 Gly Met Val Gly Thr Leu Ile Thr Thr Ile Leu Pro His Trp Arg Arg  
 20 25 30  
 Thr Ala His Val Gly Thr Asn Ile Leu Thr Ala Val Ser Tyr Leu Lys  
 35 40 45  
 Gly Leu Trp Met Glu Cys Val Trp His Ser Thr Gly Ile Tyr Gln Cys  
 50 55 60  
 Gln Ile Tyr Arg Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala  
 65 70 75 80  
 Arg Ala Leu Met Val Ile Ser Cys Leu Leu Ser Gly Ile Ala Cys Ala  
 85 90 95  
 Cys Ala Val Ile Gly Met Lys Cys Thr Arg Cys Ala Lys Gly Thr Pro  
 100 105 110  
 Ala Lys Thr Thr Phe Ala Ile Leu Gly Gly Thr Leu Phe Ile Leu Ala  
 115 120 125  
 Gly Leu Leu Cys Met Val Ala Val Ser Trp Thr Thr Asn Asp Val Val

130  
 Gln Asn Phe Tyr Asn Pro Leu Leu Pro Ser Gly Met Lys Phe Glu Ile  
 145  
 Gly Gln Ala Leu Tyr Leu Gly Phe Ile Ser Ser Ser Leu Ser Leu Ile  
 150  
 Gly Gly Thr Leu Leu Cys Leu Ser Cys Gln Asp Glu Ala Pro Tyr Arg  
 165  
 180  
 Pro Tyr Gln Ala Pro Pro Arg Ala Thr Thr Thr Thr Ala Asn Thr Ala  
 195  
 Pro Ala Tyr Gln Pro Pro Ala Ala Tyr Lys Asp Asn Arg Ala Pro Ser  
 210  
 Val Thr Ser Ala Thr His Ser Gly Tyr Arg Leu Asn Asp Tyr Val  
 225  
 230  
 235

<210> 250  
 <211> 414  
 <212> PRT  
 <213> Homo sapiens  
 <400> 250

Met Gln Thr Phe Leu Lys Gly Lys Arg Val Gly Tyr Trp Leu Ser Glu  
 1  
 5  
 Lys Lys Ile Lys Lys Leu Asn Phe Gln Ala Phe Ala Glu Leu Cys Arg  
 20  
 Lys Arg Gly Met Glu Val Val Gln Leu Asn Leu Ser Arg Pro Ile Glu  
 35  
 40  
 Glu Gln Gly Pro Leu Asp Val Ile Ile His Lys Leu Thr Asp Val Ile  
 50  
 55  
 Leu Glu Ala Asp Gln Asn Asp Ser Gln Ser Leu Glu Leu Val His Arg  
 65  
 70  
 Phe Gln Glu Tyr Ile Asp Ala His Pro Glu Thr Ile Val Leu Asp Pro  
 85  
 90  
 Leu Pro Ala Ile Arg Thr Leu Leu Asp Arg Ser Lys Ser Tyr Glu Leu  
 100  
 105  
 Ile Arg Lys Ile Glu Ala Tyr Met Glu Asp Asp Arg Ile Cys Ser Pro  
 115  
 120  
 Pro Phe Met Glu Leu Thr Ser Leu Cys Gly Asp Asp Thr Met Arg Leu  
 130  
 135  
 Leu Glu Lys Asn Gly Leu Thr Phe Pro Phe Ile Cys Lys Thr Arg Val  
 145  
 150  
 Ala His Gly Thr Asn Ser His Glu Met Ala Ile Val Phe Asn Gln Glu  
 165  
 170  
 Gly Leu Asn Ala Ile Gln Pro Pro Cys Val Val Gln Asn Phe Ile Asn  
 180  
 185  
 His Asn Ala Val Leu Tyr Lys Val Phe Val Val Gly Glu Ser Tyr Thr  
 195  
 200  
 Val Val Gln Arg Pro Ser Leu Lys Asn Phe Ser Ala Gly Thr Ser Asp  
 210  
 215  
 Arg Glu Ser Ile Phe Phe Asn Ser His Asn Val Ser Lys Pro Glu Ser  
 225  
 230  
 Ser Ser Val Leu Thr Glu Leu Asp Lys Ile Glu Gly Val Phe Glu Arg  
 245  
 250  
 Pro Ser Asp Glu Val Ile Arg Glu Leu Ser Arg Ala Leu Arg Gln Ala  
 260  
 265  
 Leu Gly Val Ser Leu Phe Gly Ile Asp Ile Ile Ile Asn Asn Gln Thr  
 275  
 280  
 Gly Gln His Ala Val Ile Asp Ile Asn Ala Phe Pro Gly Tyr Glu Gly  
 290  
 295  
 Val Ser Glu Phe Phe Thr Asp Leu Leu Asn His Ile Ala Thr Val Leu  
 305  
 310  
 Gln Gly Gln Ser Thr Ala Met Ala Ala Thr Gly Asp Val Ala Leu Leu  
 325  
 330  
 Arg His Ser Lys Leu Leu Ala Glu Pro Ala Gly Gly Leu Val Gly Glu  
 340  
 345  
 Arg Thr Cys Ser Ala Ser Pro Gly Cys Cys Gly Ser Met Met Gly Gln  
 355  
 360  
 Asp Ala Pro Trp Lys Ala Glu Ala Asp Ala Gly Gly Thr Ala Lys Leu  
 370  
 375  
 Pro His Gln Arg Leu Gly Cys Asn Ala Gly Val Ser Pro Ser Phe Gln  
 385  
 390  
 395  
 400



Gln His Cys Val Ala Ser Leu Ala Thr Lys Ala Ser Ser Gln  
 405 410

<210> 251  
 <211> 1255  
 <212> PRT  
 <213> Homo sapiens  
 <400> 251

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu  
 1 5 10 15  
 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys  
 20 25 30  
 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His  
 35 40 45  
 Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr  
 50 55 60  
 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val  
 65 70 75 80  
 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu  
 85 90 95  
 Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr  
 100 105 110  
 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro  
 115 120 125  
 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser  
 130 135 140  
 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln  
 145 150 155 160  
 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn  
 165 170 175  
 Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys  
 180 185 190  
 His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser  
 195 200 205  
 Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys  
 210 215 220  
 Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys  
 225 230 235 240  
 Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu  
 245 250 255  
 His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val  
 260 265 270  
 Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg  
 275 280 285  
 Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu  
 290 295 300  
 Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln  
 305 310 315 320  
 Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys  
 325 330 335  
 Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu  
 340 345 350  
 Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys  
 355 360 365  
 Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp  
 370 375 380  
 Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe  
 385 390 395 400  
 Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro  
 405 410 415  
 Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg  
 420 425 430  
 Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu  
 435 440 445  
 Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly  
 450 455 460  
 Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val  
 465 470 475 480  
 Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr

Ala	Asn	Arg	Pro	485	Glu	Asp	Glu	Cys	Val	490	Gly	Glu	Gly	Leu	Ala	495	Cys	His
Gln	Leu	Cys	500	Ala	Arg	Gly	His	Cys	505	Trp	Gly	Pro	Gly	Pro	510	Thr	Gln	Cys
Val	Asn	Cys	515	Ser	Gln	Phe	Leu	Arg	520	Gly	Gln	Glu	Cys	525	Val	Glu	Glu	Cys
Arg	Val	Leu	530	Gln	Gly	Leu	Pro	Arg	535	Glu	Tyr	Val	Asn	540	Ala	Arg	His	Cys
Leu	Pro	Cys	545	His	Pro	Glu	Cys	Gln	550	Pro	Gln	Asn	Gly	555	Ser	Val	Thr	Cys
Phe	Gly	Pro	565	Glu	Ala	Asp	Gln	Cys	570	Val	Ala	Cys	Ala	575	His	Tyr	Lys	Asp
Pro	Pro	Phe	580	Cys	Val	Ala	Arg	Cys	585	Pro	Ser	Gly	Val	590	Lys	Pro	Asp	Leu
Ser	Tyr	Met	595	Pro	Ile	Trp	Lys	Phe	600	Pro	Asp	Glu	Glu	605	Ala	Cys	Gln	
Pro	Cys	Pro	610	Ile	Asn	Cys	Thr	His	615	Ser	Cys	Val	Asp	620	Leu	Asp	Asp	Lys
Gly	Cys	Pro	625	Ala	Glu	Gln	Arg	Ala	630	Ser	Pro	Leu	Thr	635	Ser	Ile	Val	Ser
Ala	Val	Val	645	Gly	Ile	Leu	Leu	Val	650	Val	Val	Leu	Gly	655	Val	Val	Phe	Gly
Ile	Leu	Ile	660	Lys	Arg	Arg	Gln	Gln	665	Lys	Ile	Arg	Lys	670	Tyr	Thr	Met	Arg
Arg	Leu	Leu	675	Gln	Glu	Thr	Glu	Leu	680	Val	Glu	Pro	Leu	685	Thr	Pro	Ser	Gly
Ala	Met	Pro	690	Asn	Gln	Ala	Gln	Met	695	Arg	Ile	Leu	Lys	700	Glu	Thr	Glu	Leu
Arg	Lys	Val	705	Lys	Val	Leu	Gly	Ser	710	Gly	Ala	Phe	Gly	715	Thr	Val	Tyr	Lys
Gly	Ile	Trp	725	Ile	Pro	Asp	Gly	Glu	730	Asn	Val	Lys	Ile	735	Pro	Val	Ala	Ile
Lys	Val	Leu	740	Arg	Glu	Asn	Thr	Ser	745	Pro	Lys	Ala	Asn	750	Lys	Glu	Ile	Leu
Asp	Glu	Ala	755	Tyr	Val	Met	Ala	Gly	760	Val	Gly	Ser	Pro	765	Tyr	Val	Ser	Arg
Leu	Leu	Gly	770	Ile	Cys	Leu	Thr	Ser	775	Thr	Val	Gln	Leu	780	Val	Thr	Gln	Leu
Met	Pro	Tyr	785	Gly	Cys	Leu	Leu	Asp	790	His	Val	Arg	Glu	795	Asn	Arg	Gly	Arg
Leu	Gly	Ser	805	Gln	Asp	Leu	Leu	Asn	810	Trp	Cys	Met	Gln	815	Ile	Ala	Lys	Gly
Met	Ser	Tyr	820	Leu	Glu	Asp	Val	Arg	825	Leu	Val	His	Arg	830	Asp	Leu	Ala	Ala
Arg	Asn	Val	835	Leu	Val	Lys	Ser	Pro	840	Asn	His	Val	Lys	845	Ile	Thr	Asp	Phe
Gly	Leu	Ala	850	Arg	Leu	Leu	Asp	Ile	855	Asp	Glu	Thr	Glu	860	Tyr	His	Ala	Asp
Gly	Gly	Lys	865	Val	Pro	Ile	Lys	Trp	870	Met	Ala	Leu	Glu	875	Ser	Ile	Leu	Arg
Arg	Arg	Phe	885	Thr	His	Gln	Ser	Asp	890	Val	Trp	Ser	Tyr	895	Gly	Val	Thr	Val
Trp	Glu	Leu	900	Met	Thr	Phe	Gly	Ala	905	Lys	Pro	Tyr	Asp	910	Gly	Ile	Pro	Ala
Arg	Glu	Ile	915	Pro	Asp	Leu	Leu	Glu	920	Lys	Gly	Glu	Arg	925	Leu	Pro	Gln	Pro
Pro	Ile	Cys	930	Thr	Ile	Asp	Val	Tyr	935	Met	Ile	Met	Val	940	Lys	Cys	Trp	Met
Ile	Asp	Ser	945	Glu	Cys	Arg	Pro	Arg	950	Phe	Arg	Glu	Leu	955	Val	Ser	Glu	Phe
Ser	Arg	Met	965	Ala	Arg	Asp	Pro	Gln	970	Phe	Val	Val	Ile	975	Gln	Asn	Glu	
Asp	Leu	Gly	980	Pro	Ala	Ser	Pro	Leu	985	Asp	Ser	Thr	Phe	990	Tyr	Arg	Ser	Leu
Leu	Glu	Asp	995	Asp	Asp	Met	Gly	Asp	1000	Leu	Val	Asp	Ala	1005	Glu	Glu	Tyr	
Leu	Val	Pro	1010	Gln	Gln	Gly	Phe	Phe	1015	Cys	Pro	Asp	Pro	1020	Ala	Pro	Gly	
			1025						1030					1035				

Ala Gly Gly Met Val His His Arg His Arg Ser Ser Ser Thr Arg  
 1040 1045 1050  
 Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu  
 1055 1060 1065  
 Glu Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser  
 1070 1075 1080  
 Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys Gly Leu  
 1085 1090 1095  
 Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr Ser  
 1100 1105 1110  
 Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val  
 1115 1120 1125  
 Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro  
 1130 1135 1140  
 Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu Pro  
 1145 1150 1155  
 Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr Leu  
 1160 1165 1170  
 Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly  
 1175 1180 1185  
 Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala  
 1190 1195 1200  
 Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp  
 1205 1210 1215  
 Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro  
 1220 1225 1230  
 Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr  
 1235 1240 1245  
 Leu Gly Leu Asp Val Pro Val  
 1250 1255

<210> 252  
 <211> 393  
 <212> PRT  
 <213> Homo sapiens  
 <400> 252

Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln  
 1 5 10 15  
 Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu  
 20 25 30  
 Ser Pro Leu Pro Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp  
 35 40 45  
 Asp Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro  
 50 55 60  
 Arg Met Pro Glu Ala Ala Pro Arg Val Ala Pro Ala Pro Ala Ala Pro  
 65 70 75 80  
 Thr Pro Ala Ala Pro Ala Pro Ala Pro Ser Trp Pro Leu Ser Ser Ser  
 85 90 95  
 Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu Gly  
 100 105 110  
 Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro  
 115 120 125  
 Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln  
 130 135 140  
 Leu Trp Val Asp Ser Thr Pro Pro Gly Thr Arg Val Arg Ala Met  
 145 150 155 160  
 Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys  
 165 170 175  
 Pro His His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln  
 180 185 190  
 His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp  
 195 200 205  
 Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu  
 210 215 220  
 Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr Met Cys Asn Ser  
 225 230 235 240  
 Ser Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr  
 245 250 255  
 Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val

260  
 Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Glu Glu Asn  
 275  
 Leu Arg Lys Lys Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr  
 290  
 Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Ser Pro Gln Pro Lys Lys  
 305  
 Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu  
 325  
 Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp  
 340  
 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His  
 355  
 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met  
 370  
 Phe Lys Thr Glu Gly Pro Asp Ser Asp  
 385  
 390

265  
 270

<210> 253  
 <211> 639  
 <212> PRT  
 <213> Homo sapiens  
 <400> 253

Met Ser Ala Arg Gly Pro Ala Ile Gly Ile Asp Leu Gly Thr Thr Tyr  
 1  
 Ser Cys Val Gly Val Phe Gln His Gly Lys Val Glu Ile Ile Ala Asn  
 20  
 Asp Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr Asp Thr  
 35  
 Glu Arg Leu Ile Gly Asp Ala Lys Asn Gln Val Ala Met Asn Pro  
 50  
 Thr Asn Thr Ile Phe Asp Ala Lys Arg Leu Ile Gly Arg Lys Phe Glu  
 65  
 Asp Ala Thr Val Gln Ser Asp Met Lys His Trp Pro Phe Arg Val Val  
 85  
 Ser Glu Gly Gly Lys Pro Lys Val Gln Val Glu Tyr Lys Gly Glu Thr  
 100  
 Lys Thr Phe Phe Pro Glu Glu Ile Ser Ser Met Val Leu Thr Lys Met  
 115  
 Lys Glu Ile Ala Glu Ala Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys  
 130  
 Ile Thr Val Pro Ala Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys  
 145  
 Asp Ala Gly Thr Ile Thr Gly Leu Asn Val Leu Arg Ile Ile Asn Glu  
 165  
 Pro Thr Ala Ala Ala Ile Ala Tyr Gly Leu Asp Lys Lys Gly Cys Ala  
 180  
 Gly Gly Glu Lys Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe  
 195  
 Asp Val Ser Ile Leu Thr Ile Glu Asp Gly Ile Phe Glu Val Lys Ser  
 210  
 Thr Ala Gly Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Met  
 225  
 Val Ser His Leu Ala Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile  
 245  
 Gly Pro Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg  
 260  
 Ala Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Ile Glu Ile Asp  
 275  
 Ser Leu Tyr Glu Gly Val Asp Phe Tyr Thr Ser Ile Thr Arg Ala Arg  
 290  
 Phe Glu Glu Leu Asn Ala Asp Leu Phe Arg Gly Thr Leu Glu Pro Val  
 305  
 Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Gly Gln Ile Gln Glu  
 325  
 Ile Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys Ile Gln Lys Leu  
 340  
 Leu Gln Asp Phe Phe Asn Gly Lys Glu Leu Asn Lys Ser Ile Asn Pro  
 355  
 360  
 365

Asp Glu Ala Val Ala Tyr Gly Ala Ala Val Gln Ala Ala Ile Leu Ile  
 370 375 380  
 Gly Asp Lys Ser Glu Asn Val Gln Asp Leu Leu Leu Leu Asp Val Thr  
 385 390 395 400  
 Pro Leu Ser Leu Gly Ile Glu Thr Ala Gly Val Met Thr Pro Leu  
 405 410 415  
 Ile Lys Arg Asn Thr Thr Ile Pro Thr Lys Gln Thr Gln Thr Phe Thr  
 420 425 430  
 Thr Tyr Ser Asp Asn Gln Ser Ser Val Leu Val Gln Val Tyr Glu Gly  
 435 440 445  
 Glu Arg Ala Met Thr Lys Asp Asn Asn Leu Leu Gly Lys Phe Asp Leu  
 450 455 460  
 Thr Gly Ile Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr  
 465 470 475 480  
 Phe Asp Ile Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Ala Asp Lys  
 485 490 495  
 Ser Thr Gly Lys Glu Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg  
 500 505 510  
 Leu Ser Lys Asp Asp Ile Asp Arg Met Val Gln Glu Ala Glu Arg Tyr  
 515 520 525  
 Lys Ser Glu Asp Glu Ala Asn Arg Asp Arg Val Ala Ala Lys Asn Ala  
 530 535 540  
 Leu Glu Ser Tyr Thr Tyr Asn Ile Lys Gln Thr Val Glu Asp Glu Lys  
 545 550 555 560  
 Leu Arg Gly Lys Ile Ser Glu Gln Asp Lys Asn Lys Ile Leu Asp Lys  
 565 570 575  
 Cys Gln Glu Val Ile Asn Trp Leu Asp Arg Asn Gln Met Ala Glu Lys  
 580 585 590  
 Asp Glu Tyr Glu His Lys Gln Lys Glu Leu Glu Arg Val Cys Asn Pro  
 595 600 605  
 Ile Ile Ser Lys Leu Tyr Gln Gly Gly Pro Gly Gly Ser Gly Gly  
 610 615 620  
 Gly Gly Ser Gly Ala Ser Gly Gly Pro Thr Ile Glu Glu Val Asp  
 625 630 635

&lt;210&gt; 254

&lt;211&gt; 1094

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

Met Ala Arg Pro Val Arg Gly Gly Leu Gly Ala Pro Arg Arg Ser Pro  
 1 5 10 15  
 Cys Leu Leu Leu Leu Trp Leu Leu Leu Leu Arg Leu Glu Pro Val Thr  
 20 25 30  
 Ala Ala Ala Gly Pro Arg Ala Pro Cys Ala Ala Ala Cys Thr Cys Ala  
 35 40 45  
 Gly Asp Ser Leu Asp Cys Gly Gly Arg Gly Leu Ala Ala Leu Pro Gly  
 50 55 60  
 Asp Leu Pro Ser Trp Thr Arg Ser Leu Asn Leu Ser Tyr Asn Lys Leu  
 65 70 75 80  
 Ser Glu Ile Asp Pro Ala Gly Phe Glu Asp Leu Pro Asn Leu Gln Glu  
 85 90 95  
 Val Tyr Leu Asn Asn Asn Glu Leu Thr Ala Val Pro Ser Leu Gly Ala  
 100 105 110  
 Ala Ser Ser His Val Val Ser Leu Phe Leu Gln His Asn Lys Ile Arg  
 115 120 125  
 Ser Val Glu Gly Ser Gln Leu Lys Ala Tyr Leu Ser Leu Glu Val Leu  
 130 135 140  
 Asp Leu Ser Leu Asn Asn Ile Thr Glu Val Arg Asn Thr Cys Phe Pro  
 145 150 155 160  
 His Gly Pro Pro Ile Lys Glu Leu Asn Leu Ala Gly Asn Arg Ile Gly  
 165 170 175  
 Thr Leu Glu Leu Gly Ala Phe Asp Gly Leu Ser Arg Ser Leu Leu Thr  
 180 185 190  
 Leu Arg Leu Ser Lys Asn Arg Ile Thr Gln Leu Pro Val Arg Ala Phe  
 195 200 205  
 Lys Leu Pro Arg Leu Thr Gln Leu Asp Leu Asn Arg Asn Arg Ile Arg  
 210 215 220  
 Leu Ile Glu Gly Leu Thr Phe Gln Gly Leu Asn Ser Leu Glu Val Leu

225					230					235				240
Lys	Leu	Gln	Arg	Asn	Asn	Ile	Ser	Lys	Leu	Thr	Asp	Gly	Ala	Phe
				245					250					255
Gly	Leu	Ser	Lys	Met	His	Val	Leu	His	Leu	Glu	Tyr	Asn	Ser	Leu
			260					265						270
Glu	Val	Asn	Ser	Gly	Ser	Leu	Tyr	Gly	Leu	Thr	Ala	Leu	His	Gln
		275					280				285			Leu
His	Leu	Ser	Asn	Asn	Ser	Ile	Ala	Arg	Ile	His	Arg	Lys	Gly	Trp
	290					295				300				Ser
Phe	Cys	Gln	Lys	Leu	His	Glu	Leu	Val	Leu	Ser	Phe	Asn	Asn	Leu
	305				310					315				Thr
Arg	Leu	Asp	Glu	Glu	Ser	Leu	Ala	Glu	Leu	Ser	Ser	Leu	Ser	Val
			325						330					Leu
Arg	Leu	Ser	His	Asn	Ser	Ile	Ser	His	Ile	Ala	Glu	Gly	Ala	Phe
			340					345						Lys
Gly	Leu	Arg	Ser	Leu	Arg	Val	Leu	Asp	Leu	Asp	His	Asn	Glu	Ile
	355						360				365			Ser
Gly	Thr	Ile	Glu	Asp	Thr	Ser	Gly	Ala	Phe	Ser	Gly	Leu	Asp	Ser
	370					375					380			Leu
Ser	Lys	Leu	Thr	Leu	Phe	Gly	Asn	Lys	Ile	Lys	Ser	Val	Ala	Lys
	385				390					395				Arg
Ala	Phe	Ser	Gly	Leu	Glu	Gly	Leu	Glu	His	Leu	Asn	Leu	Gly	Gly
			405						410					Asn
Ala	Ile	Arg	Ser	Val	Gln	Phe	Asp	Ala	Phe	Val	Lys	Met	Lys	Asn
			420					425						Leu
Lys	Glu	Leu	His	Ile	Ser	Ser	Asp	Ser	Phe	Leu	Cys	Asp	Cys	Gln
	435						440							Leu
Lys	Trp	Leu	Pro	Pro	Trp	Leu	Ile	Gly	Arg	Met	Leu	Gln	Ala	Phe
	450					455					460			Val
Thr	Ala	Thr	Cys	Ala	His	Pro	Glu	Ser	Leu	Lys	Gly	Gln	Ser	Ile
	465				470					475				Phe
Ser	Val	Pro	Pro	Glu	Ser	Phe	Val	Cys	Asp	Asp	Phe	Leu	Lys	Pro
			485					490						Gln
Ile	Ile	Thr	Gln	Pro	Glu	Thr	Thr	Met	Ala	Met	Val	Gly	Lys	Asp
			500					505						Ile
Arg	Phe	Thr	Cys	Ser	Ala	Ala	Ser	Ser	Ser	Ser	Ser	Pro	Met	Thr
	515						520					525		Phe
Ala	Trp	Lys	Lys	Asp	Asn	Glu	Val	Leu	Thr	Asn	Ala	Asp	Met	Glu
	530					535					540			Asn
Phe	Val	His	Val	His	Ala	Gln	Asp	Gly	Glu	Val	Met	Glu	Tyr	Thr
	545				550				555					Thr
Ile	Leu	His	Leu	Arg	Gln	Val	Thr	Phe	Gly	His	Glu	Gly	Arg	Tyr
			565					570						Gln
Cys	Val	Ile	Thr	Asn	His	Phe	Gly	Ser	Thr	Tyr	Ser	His	Lys	Ala
			580					585					590	Arg
Leu	Thr	Val	Asn	Val	Leu	Pro	Ser	Phe	Thr	Lys	Thr	Pro	His	Asp
	595						600					605		Ile
Thr	Ile	Arg	Thr	Thr	Thr	Met	Ala	Arg	Leu	Glu	Cys	Ala	Ala	Thr
	610					615					620			Gly
His	Pro	Asn	Pro	Gln	Ile	Ala	Trp	Gln	Lys	Asp	Gly	Gly	Thr	Asp
	625				630					635				Phe
Pro	Ala	Ala	Arg	Glu	Arg	Arg	Met	His	Val	Met	Pro	Asp	Asp	Asp
			645					650						Val
Phe	Phe	Ile	Thr	Asp	Val	Lys	Ile	Asp	Asp	Ala	Gly	Val	Tyr	Ser
			660					665					670	Cys
Thr	Ala	Gln	Asn	Ser	Ala	Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr	Leu
	675						680					685		Thr
Val	Leu	Glu	Thr	Pro	Ser	Leu	Val	Val	Pro	Leu	Glu	Asp	Arg	Val
	690					695					700			Val
Ser	Val	Gly	Glu	Thr	Val	Ala	Leu	Gln	Cys	Lys	Ala	Thr	Gly	Asn
	705				710					715				Pro
Pro	Pro	Arg	Ile	Thr	Trp	Phe	Lys	Gly	Asp	Arg	Pro	Leu	Ser	Leu
			725					730						Thr
Glu	Arg	His	His	Leu	Thr	Pro	Asp	Asn	Gln	Leu	Leu	Val	Val	Gln
			740					745						Asn
Val	Val	Ala	Glu	Asp	Ala	Gly	Arg	Tyr	Thr	Cys	Glu	Met	Ser	Asn
	755						760					765		Thr
Leu	Gly	Thr	Glu	Arg	Ala	His	Ser	Gln	Leu	Ser	Val	Leu	Pro	Ala
	770					775					780			Ala

Gly Cys Arg Lys Asp Gly Thr Thr Val Gly Ile Phe Thr Ile Ala Val  
 785 790 795 800  
 Val Ser Ser Ile Val Leu Thr Ser Leu Val Trp Val Cys Ile Ile Tyr  
 805 810 815  
 Gln Thr Arg Lys Lys Ser Glu Glu Tyr Ser Val Thr Asn Thr Asp Glu  
 820 825 830  
 Thr Val Val Pro Pro Asp Val Pro Ser Tyr Leu Ser Ser Gln Gly Thr  
 835 840 845  
 Leu Ser Asp Arg Gln Glu Thr Val Val Arg Thr Glu Gly Ala Gly Pro  
 850 855 860  
 Gln Ala Asn Gly His Ile Glu Ser Asn Gly Val Cys Pro Arg Asp Ala  
 865 870 875 880  
 Ser His Phe Pro Glu Pro Asp Thr His Ser Val Ala Cys Arg Gln Pro  
 885 890 895  
 Lys Leu Cys Ala Gly Ser Ala Tyr His Lys Glu Pro Trp Lys Ala Ile  
 900 905 910  
 Glu Lys Ala Glu Gly Thr Pro Gly Pro His Lys Met Glu His Gly Gly  
 915 920 925  
 Arg Val Val Cys Ser Asp Cys Asn Thr Glu Val Asp Cys Tyr Ser Arg  
 930 935 940  
 Gly Gln Ala Phe His Pro Gln Pro Val Ser Arg Asp Ser Ala Gln Pro  
 945 950 955 960  
 Ser Ala Pro Asn Gly Pro Glu Pro Gly Gly Ser Asp Gln Glu His Ser  
 965 970 975  
 Pro His His Gln Cys Ser Arg Thr Ala Ala Gly Ser Cys Pro Glu Cys  
 980 985 990  
 Gln Gly Ser Leu Tyr Pro Ser Asn His Asp Arg Met Leu Thr Ala Val  
 995 1000 1005  
 Lys Lys Lys Pro Met Ala Ser Leu Asp Gly Lys Gly Asp Ser Ser  
 1010 1015 1020  
 Trp Thr Leu Ala Arg Leu Tyr His Pro Asp Ser Thr Glu Leu Gln  
 1025 1030 1035  
 Pro Ala Ser Ser Leu Thr Ser Gly Ser Pro Glu Arg Ala Glu Ala  
 1040 1045 1050  
 Gln Tyr Leu Leu Val Ser Asn Gly His Leu Pro Lys Ala Cys Asp  
 1055 1060 1065  
 Ala Ser Pro Glu Ser Thr Pro Leu Thr Gly Gln Leu Pro Gly Lys  
 1070 1075 1080  
 Gln Arg Val Pro Leu Leu Leu Ala Pro Lys Ser  
 1085 1090

<210> 255  
 <211> 474  
 <212> PRT  
 <213> Homo sapiens  
 <400> 255

Met Ala Thr Asn Trp Gly Ser Leu Leu Gln Asp Lys Gln Gln Leu Glu  
 1 5 10 15  
 Glu Leu Ala Arg Gln Ala Val Asp Arg Ala Leu Ala Glu Gly Val Leu  
 20 25 30  
 Leu Arg Thr Ser Gln Glu Pro Thr Ser Ser Glu Val Val Ser Tyr Ala  
 35 40 45  
 Pro Phe Thr Leu Phe Pro Ser Leu Val Pro Ser Ala Leu Leu Glu Gln  
 50 55 60  
 Ala Tyr Ala Val Gln Met Asp Phe Asn Leu Leu Val Asp Ala Val Ser  
 65 70 75 80  
 Gln Asn Ala Ala Phe Leu Glu Gln Thr Leu Ser Ser Thr Ile Lys Gln  
 85 90 95  
 Asp Asp Phe Thr Ala Arg Leu Phe Asp Ile His Lys Gln Val Leu Lys  
 100 105 110  
 Glu Gly Ile Ala Gln Thr Val Phe Leu Gly Leu Asn Arg Ser Asp Tyr  
 115 120 125  
 Met Phe Gln Arg Ser Ala Asp Gly Ser Pro Ala Leu Lys Gln Ile Glu  
 130 135 140  
 Ile Asn Thr Ile Ser Ala Ser Phe Gly Gly Leu Ala Ser Arg Thr Pro  
 145 150 155 160  
 Ala Val His Arg His Val Leu Ser Val Leu Ser Lys Thr Lys Glu Ala  
 165 170 175  
 Gly Lys Ile Leu Ser Asn Asn Pro Ser Lys Gly Leu Ala Leu Gly Ile

180  
 Ala Lys Ala Trp Glu Leu Tyr Gly 185  
 195 Ser Pro Asn Ala Leu Val Leu Leu  
 Ile Ala Gln Glu Lys Glu Arg Asn Ile Phe Asp Gln Arg Ala Ile Glu  
 210 215 220  
 Asn Glu Leu Leu Ala Arg Asn Ile His Val Ile Arg Arg Thr Phe Glu  
 225 230 235 240  
 Asp Ile Ser Glu Lys Gly Ser Leu Asp Gln Asp Arg Arg Leu Phe Val  
 245 250 255  
 Asp Gly Gln Glu Ile Ala Val Val Tyr Phe Arg Asp Gly Tyr Met Pro  
 260 265 270  
 Arg Gln Tyr Ser Leu Gln Asn Trp Glu Ala Arg Leu Leu Glu Arg  
 275 280 285  
 Ser His Ala Ala Lys Cys Pro Asp Ile Ala Thr Gln Leu Ala Gly Thr  
 290 295 300  
 Lys Lys Val Gln Gln Glu Leu Ser Arg Pro Gly Met Leu Glu Met Leu  
 305 310 315 320  
 Leu Pro Gly Gln Pro Glu Ala Val Ala Arg Leu Arg Ala Thr Phe Ala  
 325 330 335  
 Gly Leu Tyr Ser Leu Asp Val Gly Glu Gly Asp Gln Ala Ile Ala  
 340 345 350  
 Glu Ala Leu Ala Ala Pro Ser Arg Phe Val Leu Lys Pro Gln Arg Glu  
 355 360 365  
 Gly Gly Gly Asn Asn Leu Tyr Gly Glu Glu Met Val Gln Ala Leu Lys  
 370 375 380  
 Gln Leu Lys Asp Ser Glu Glu Arg Ala Ser Tyr Ile Leu Met Glu Lys  
 385 390 395 400  
 Ile Glu Pro Glu Pro Phe Glu Asn Cys Leu Leu Arg Pro Gly Ser Pro  
 405 410 415  
 Ala Arg Val Val Gln Cys Ile Ser Glu Leu Gly Ile Phe Gly Val Tyr  
 420 425 430  
 Val Arg Gln Glu Lys Thr Leu Val Met Asn Lys His Val Gly His Leu  
 435 440 445  
 Leu Arg Thr Lys Ala Ile Glu His Ala Asp Gly Gly Val Ala Ala Gly  
 450 455 460  
 Val Ala Val Leu Asp Asn Pro Tyr Pro Val  
 465 470

<210> 256  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens  
 <400> 256

Met Trp Ile Tyr Ser Lys Leu Ser Lys Arg Thr Val Phe Arg Lys Gly  
 1 5 10 15  
 Lys Thr Arg Thr Gln Lys Thr Leu Gly Ile Thr Thr Thr Pro Lys Cys  
 20 25 30  
 Phe Arg Leu Gln Glu Ile Thr Ile His Val Phe Ala Gly Gly His Thr  
 35 40 45  
 Ile Phe Pro Tyr Tyr Leu Val Gln Asn Asp Ser Ser Leu Pro Lys Ser  
 50 55 60  
 Phe Phe Ser Asn His Asp Phe Pro Ile Tyr Phe Gly Pro Met Gln Ser  
 65 70 75 80  
 His Ser Leu Trp Pro Ile Val Ser Leu Pro Thr Thr Pro Leu Gly Gly  
 85 90 95

<210> 257  
 <211> 3256  
 <212> PRT  
 <213> Homo sapiens  
 <400> 257

Met Trp Pro Thr Arg Arg Leu Val Thr Ile Lys Arg Ser Gly Val Asp  
 1 5 10 15  
 Gly Pro His Phe Pro Leu Ser Leu Ser Thr Cys Leu Phe Gly Arg Gly  
 20 25 30  
 Ile Glu Cys Asp Ile Arg Ile Gln Leu Pro Val Val Ser Lys Gln His  
 35 40 45  
 Cys Lys Ile Glu Ile His Glu Gln Glu Ala Ile Leu His Asn Phe Ser  
 50 55 60



Ser Thr Asn Pro Thr Gln Val Asn Gly Ser Val Ile Asp Glu Pro Val  
 65 70 75 80  
 Arg Leu Lys His Gly Asp Val Ile Thr Ile Ile Asp Arg Ser Phe Arg  
 85 90 95  
 Tyr Glu Asn Glu Ser Leu Gln Asn Gly Arg Lys Ser Thr Glu Phe Pro  
 100 105 110  
 Arg Lys Ile Arg Glu Gln Glu Pro Ala Arg Arg Val Ser Arg Ser Ser  
 115 120 125  
 Phe Ser Ser Asp Pro Asp Glu Lys Ala Gln Asp Ser Lys Ala Tyr Ser  
 130 135 140  
 Lys Ile Thr Glu Gly Lys Val Ser Gly Asn Pro Gln Val His Ile Lys  
 145 150 155 160  
 Asn Val Lys Glu Asp Ser Thr Ala Asp Asp Ser Lys Asp Ser Val Ala  
 165 170 175  
 Gln Gly Thr Thr Asn Val His Ser Ser Glu His Ala Gly Arg Asn Gly  
 180 185 190  
 Arg Asn Ala Ala Asp Pro Ile Ser Gly Asp Phe Lys Glu Ile Ser Ser  
 195 200 205  
 Val Lys Leu Val Ser Arg Tyr Gly Glu Leu Lys Ser Val Pro Thr Thr  
 210 215 220  
 Gln Cys Leu Asp Asn Ser Lys Lys Asn Glu Ser Pro Phe Trp Lys Leu  
 225 230 235 240  
 Tyr Glu Ser Val Lys Lys Glu Leu Asp Val Lys Ser Gln Lys Glu Asn  
 245 250 255  
 Val Leu Gln Tyr Cys Arg Lys Ser Gly Leu Gln Thr Asp Tyr Ala Thr  
 260 265 270  
 Glu Lys Glu Ser Ala Asp Gly Leu Gln Gly Glu Thr Gln Leu Leu Val  
 275 280 285  
 Ser Arg Lys Ser Arg Pro Lys Ser Gly Gly Ser Gly His Ala Val Ala  
 290 295 300  
 Glu Pro Ala Ser Pro Glu Gln Glu Leu Asp Gln Asn Lys Gly Lys Gly  
 305 310 315 320  
 Arg Asp Val Glu Ser Val Gln Thr Pro Ser Lys Ala Val Gly Ala Ser  
 325 330 335  
 Phe Pro Leu Tyr Glu Pro Ala Lys Met Lys Thr Pro Val Gln Tyr Ser  
 340 345 350  
 Gln Gln Gln Asn Ser Pro Gln Lys His Lys Asn Lys Asp Leu Tyr Thr  
 355 360 365  
 Thr Gly Arg Arg Glu Ser Val Asn Leu Gly Lys Ser Glu Gly Phe Lys  
 370 375 380  
 Ala Gly Asp Lys Thr Leu Thr Pro Arg Lys Leu Ser Thr Arg Asn Arg  
 385 390 395 400  
 Thr Pro Ala Lys Val Glu Asp Ala Ala Asp Ser Ala Thr Lys Pro Glu  
 405 410 415  
 Asn Leu Ser Ser Lys Thr Arg Gly Ser Ile Pro Thr Asp Val Glu Val  
 420 425 430  
 Leu Pro Thr Glu Thr Glu Ile His Asn Glu Pro Phe Leu Thr Leu Trp  
 435 440 445  
 Leu Thr Gln Val Glu Arg Lys Ile Gln Lys Asp Ser Leu Ser Lys Pro  
 450 455 460  
 Glu Lys Leu Gly Thr Thr Ala Gly Gln Met Cys Ser Gly Leu Pro Gly  
 465 470 475 480  
 Leu Ser Ser Val Asp Ile Asn Asn Phe Gly Asp Ser Ile Asn Glu Ser  
 485 490 495  
 Glu Gly Ile Pro Leu Lys Arg Arg Arg Val Ser Phe Gly Gly His Leu  
 500 505 510  
 Arg Pro Glu Leu Phe Asp Glu Asn Leu Pro Pro Asn Thr Pro Leu Lys  
 515 520 525  
 Arg Gly Glu Ala Pro Thr Lys Arg Lys Ser Leu Val Met His Thr Pro  
 530 535 540  
 Pro Val Leu Lys Lys Ile Ile Lys Glu Gln Pro Gln Pro Ser Gly Lys  
 545 550 555 560  
 Gln Glu Ser Gly Ser Glu Ile His Val Glu Val Lys Ala Gln Ser Leu  
 565 570 575  
 Val Ile Ser Pro Pro Ala Pro Ser Pro Arg Lys Thr Pro Val Ala Ser  
 580 585 590  
 Asp Gln Arg Arg Arg Ser Cys Lys Thr Ala Pro Ala Ser Ser Ser Lys  
 595 600 605  
 Ser Gln Thr Glu Val Pro Lys Arg Gly Gly Glu Arg Val Ala Thr Cys

610	615	620
Leu Gln Lys Arg Val Ser Ile Ser Arg Ser Gln His Asp Ile Leu Gln		
625	630	635
Met Ile Cys Ser Lys Arg Arg Ser Gly Ala Ser Glu Ala Asn Leu Ile		640
	645	650
Val Ala Lys Ser Trp Ala Asp Val Val Lys Leu Gly Ala Lys Gln Thr		655
	660	665
Gln Thr Lys Val Ile Lys His Gly Pro Gln Arg Ser Met Asn Lys Arg		670
	675	680
Gln Arg Arg Pro Ala Thr Pro Lys Lys Pro Val Gly Glu Val His Ser		685
	690	695
Gln Phe Ser Thr Gly His Ala Asn Ser Pro Cys Thr Ile Ile Ile Gly		700
705	710	715
Lys Ala His Thr Glu Lys Val His Val Pro Ala Arg Pro Tyr Arg Val		720
	725	730
Leu Asn Asn Phe Ile Ser Asn Gln Lys Met Asp Phe Lys Glu Asp Leu		735
	740	745
Ser Gly Ile Ala Glu Met Phe Lys Thr Pro Val Lys Glu Gln Pro Gln		750
	755	760
Leu Thr Ser Thr Cys His Ile Ala Ile Ser Asn Ser Glu Asn Leu Leu		765
	770	775
Gly Lys Gln Phe Gln Gly Thr Asp Ser Gly Glu Glu Pro Leu Leu Pro		780
785	790	795
Thr Ser Glu Ser Phe Gly Gly Asn Val Phe Phe Ser Ala Gln Asn Ala		800
	805	810
Ala Lys Gln Pro Ser Asp Lys Cys Ser Ala Ser Pro Pro Leu Arg Arg		815
	820	825
Gln Cys Ile Arg Glu Asn Gly Asn Val Ala Lys Thr Pro Arg Asn Thr		830
	835	840
Tyr Lys Met Thr Ser Leu Glu Thr Lys Thr Ser Asp Thr Glu Thr Glu		845
	850	855
Pro Ser Lys Thr Val Ser Thr Val Asn Arg Ser Gly Arg Ser Thr Glu		860
865	870	875
Phe Arg Asn Ile Gln Lys Leu Pro Val Glu Ser Lys Ser Glu Glu Thr		880
	885	890
Asn Thr Glu Ile Val Glu Cys Ile Leu Lys Arg Gly Gln Lys Ala Thr		895
	900	905
Leu Leu Gln Gln Arg Arg Glu Gly Glu Met Lys Glu Ile Glu Arg Pro		910
	915	920
Phe Glu Thr Tyr Lys Glu Asn Ile Glu Leu Lys Glu Asn Asp Glu Lys		925
	930	935
Met Lys Ala Met Lys Arg Ser Arg Thr Trp Gly Gln Lys Cys Ala Pro		940
945	950	955
Met Ser Asp Leu Thr Asp Leu Lys Ser Leu Pro Asp Thr Glu Leu Met		960
	965	970
Lys Asp Thr Ala Arg Gly Gln Asn Leu Leu Gln Thr Gln Asp His Ala		975
	980	985
Lys Ala Pro Lys Ser Glu Lys Gly Lys Ile Thr Lys Met Pro Cys Gln		990
	995	1000
Ser Leu Gln Pro Glu Pro Ile Asn Thr Pro Thr His Thr Lys Gln		1005
	1010	1015
Gln Leu Lys Ala Ser Leu Gly Lys Val Gly Val Lys Glu Glu Leu		1020
	1025	1030
Leu Ala Val Gly Lys Phe Thr Arg Thr Ser Gly Glu Thr Thr His		1035
	1040	1045
Thr His Arg Glu Pro Ala Gly Asp Gly Lys Ser Ile Arg Thr Phe		1050
	1055	1060
Lys Glu Ser Pro Lys Gln Ile Leu Asp Pro Ala Ala Arg Val Thr		1065
	1070	1075
Gly Met Lys Lys Trp Pro Arg Thr Pro Lys Glu Glu Ala Gln Ser		1080
	1085	1090
Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr Pro Gly		1095
	1100	1105
Pro Ser Glu Glu Ser Met Thr Asp Glu Lys Thr Thr Lys Ile Ala		1110
	1115	1120
Cys Lys Ser Pro Pro Pro Glu Ser Val Asp Thr Pro Thr Ser Thr		1125
	1130	1135
Lys Gln Trp Pro Lys Arg Ser Leu Arg Lys Ala Asp Val Glu Glu		1140
	1145	1150
		1155

Glu	Phe	Leu	Ala	Leu	Arg	Lys	Leu	Thr	Pro	Ser	Ala	Gly	Lys	Ala
1160						1165					1170			
Met	Leu	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	Asp	Ile	Lys
1175						1180					1185			
Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Ala	Gly	Thr
1190						1195					1200			
Leu	Pro	Gly	Ser	Lys	Arg	Gln	Leu	Gln	Thr	Pro	Lys	Glu	Lys	Ala
1205						1210					1215			
Gln	Ala	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr
1220						1225					1230			
Pro	Gly	His	Thr	Glu	Glu	Leu	Val	Ala	Ala	Gly	Lys	Thr	Thr	Lys
1235						1240					1245			
Ile	Pro	Cys	Asp	Ser	Pro	Gln	Ser	Asp	Pro	Val	Asp	Thr	Pro	Thr
1250						1255					1260			
Ser	Thr	Lys	Gln	Arg	Pro	Lys	Arg	Ser	Ile	Arg	Lys	Ala	Asp	Val
1265						1270					1275			
Glu	Gly	Glu	Leu	Leu	Ala	Cys	Arg	Asn	Leu	Met	Pro	Ser	Ala	Gly
1280						1285					1290			
Lys	Ala	Met	His	Thr	Pro	Lys	Pro	Ser	Val	Gly	Glu	Glu	Lys	Asp
1295						1300					1305			
Ile	Ile	Ile	Phe	Val	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Thr
1310						1315					1320			
Glu	Asn	Leu	Thr	Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	Pro	Lys	Glu
1325						1330					1335			
Glu	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Thr	Gly	Phe	Lys	Glu	Leu	Phe
1340						1345					1350			
Gln	Thr	Pro	Gly	His	Thr	Glu	Glu	Ala	Val	Ala	Ala	Gly	Lys	Thr
1355						1360					1365			
Thr	Lys	Met	Pro	Cys	Glu	Ser	Ser	Pro	Pro	Glu	Ser	Ala	Asp	Thr
1370						1375					1380			
Pro	Thr	Ser	Thr	Arg	Arg	Gln	Pro	Lys	Thr	Pro	Leu	Glu	Lys	Arg
1385						1390					1395			
Asp	Val	Gln	Lys	Glu	Leu	Ser	Ala	Leu	Lys	Lys	Leu	Thr	Gln	Thr
1400						1405					1410			
Ser	Gly	Glu	Thr	Thr	His	Thr	Asp	Lys	Val	Pro	Gly	Gly	Glu	Asp
1415						1420					1425			
Lys	Ser	Ile	Asn	Ala	Phe	Arg	Glu	Thr	Ala	Lys	Gln	Lys	Leu	Asp
1430						1435					1440			
Pro	Ala	Ala	Ser	Val	Thr	Gly	Ser	Lys	Arg	His	Pro	Lys	Thr	Lys
1445						1450					1455			
Glu	Lys	Ala	Gln	Pro	Leu	Glu	Asp	Leu	Ala	Gly	Trp	Lys	Glu	Leu
1460						1465					1470			
Phe	Gln	Thr	Pro	Val	Cys	Thr	Asp	Lys	Pro	Thr	Thr	His	Glu	Lys
1475						1480					1485			
Thr	Thr	Lys	Ile	Ala	Cys	Arg	Ser	Gln	Pro	Asp	Pro	Val	Asp	Thr
1490						1495					1500			
Pro	Thr	Ser	Ser	Lys	Pro	Gln	Ser	Lys	Arg	Ser	Leu	Arg	Lys	Val
1505						1510					1515			
Asp	Val	Glu	Glu	Glu	Phe	Phe	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser
1520						1525					1530			
Ala	Gly	Lys	Ala	Met	His	Thr	Pro	Lys	Pro	Ala	Val	Ser	Gly	Glu
1535						1540					1545			
Lys	Asn	Ile	Tyr	Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp
1550						1555					1560			
Leu	Thr	Glu	Asn	Leu	Thr	Gly	Ser	Lys	Arg	Arg	Leu	Gln	Thr	Pro
1565						1570					1575			
Lys	Glu	Lys	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu
1580						1585					1590			
Leu	Phe	Gln	Thr	Arg	Gly	His	Thr	Glu	Glu	Ser	Met	Thr	Asn	Asp
1595						1600					1605			
Lys	Thr	Ala	Lys	Val	Ala	Cys	Lys	Ser	Ser	Gln	Pro	Asp	Leu	Asp
1610						1615					1620			
Lys	Asn	Pro	Ala	Ser	Ser	Lys	Arg	Arg	Leu	Lys	Thr	Ser	Leu	Gly
1625						1630					1635			
Lys	Val	Gly	Val	Lys	Glu	Glu	Leu	Leu	Ala	Val	Gly	Lys	Leu	Thr
1640						1645					1650			
Gln	Thr	Ser	Gly	Glu	Thr	Thr	His	Thr	His	Thr	Glu	Pro	Thr	Gly
1655						1660					1665			
Asp	Gly	Lys	Ser	Met	Lys	Ala	Phe	Met	Glu	Ser	Pro	Lys	Gln	Ile

1670	Leu Asp Ser Ala Ala Ser	1675	Leu Thr Gly Ser Lys	1680	Arg Gln Leu Arg
1685	Thr Pro Lys Gly Lys Ser	1690	Glu Val Pro Glu Asp	1695	Leu Ala Gly Phe
1700	Ile Glu Leu Phe Gln Thr	1705	Pro Ser His Thr Lys	1710	Glu Ser Met Thr
1715	Asn Glu Lys Thr Thr Lys	1720	Val Ser Tyr Arg Ala	1725	Ser Gln Pro Asp
1730	Leu Val Asp Thr Pro Thr	1735	Ser Ser Lys Pro Gln	1740	Pro Lys Arg Ser
1745	Leu Arg Lys Ala Asp Thr	1750	Glu Glu Glu Phe Leu	1755	Ala Phe Arg Lys
1760	Gln Thr Pro Ser Ala Gly	1765	Lys Ala Met His Thr	1770	Pro Lys Pro Ala
1775	Val Gly Glu Glu Lys Asp	1780	Ile Asn Thr Phe Leu	1785	Gly Thr Pro Val
1790	Gln Lys Leu Asp Gln Pro	1795	Gly Asn Leu Pro Gly	1800	Ser Asn Arg Arg
1805	Leu Gln Thr Arg Lys Glu	1810	Lys Ala Gln Ala Leu	1815	Glu Glu Leu Thr
1820	Gly Phe Arg Glu Leu Phe	1825	Gln Thr Pro Cys Thr	1830	Asp Asn Pro Thr
1835	Ala Asp Glu Lys Thr Thr	1840	Lys Lys Ile Leu Cys	1845	Lys Ser Pro Gln
1850	Ser Asp Pro Ala Asp Thr	1855	Pro Thr Asn Thr Lys	1860	Gln Arg Pro Lys
1865	Arg Ser Leu Lys Lys Ala	1870	Asp Val Glu Glu Glu	1875	Phe Leu Ala Phe
1880	Arg Lys Leu Thr Pro Ser	1885	Ala Gly Lys Ala Met	1890	His Thr Pro Lys
1895	Ala Ala Val Gly Glu Glu	1900	Lys Asp Ile Asn Thr	1905	Phe Val Gly Thr
1910	Pro Val Glu Lys Leu Asp	1915	Leu Leu Gly Asn Leu	1920	Pro Gly Ser Lys
1925	Arg Arg Pro Gln Thr Pro	1930	Lys Glu Lys Ala Lys	1935	Ala Leu Glu Asp
1940	Leu Ala Gly Phe Lys Glu	1945	Leu Phe Gln Thr Pro	1950	Gly His Thr Glu
1955	Glu Ser Met Thr Asp Asp	1960	Lys Ile Thr Glu Val	1965	Ser Cys Lys Ser
1970	Pro Gln Pro Asp Pro Val	1975	Lys Thr Pro Thr Ser	1980	Ser Lys Gln Arg
1985	Leu Lys Ile Ser Leu Gly	1990	Lys Val Gly Val Lys	1995	Glu Glu Val Leu
2000	Pro Val Gly Lys Leu Thr	2005	Gln Thr Ser Gly Lys	2010	Thr Thr Gln Thr
2015	His Arg Glu Thr Ala Gly	2020	Asp Gly Lys Ser Ile	2025	Lys Ala Phe Lys
2030	Glu Ser Ala Lys Gln Met	2035	Leu Asp Pro Ala Asn	2040	Tyr Gly Thr Gly
2045	Met Glu Arg Trp Pro Arg	2050	Thr Pro Lys Glu Glu	2055	Ala Gln Ser Leu
2060	Glu Asp Leu Ala Gly Phe	2065	Lys Glu Leu Phe Gln	2070	Thr Pro Asp His
2075	Thr Glu Glu Ser Thr Thr	2080	Asp Asp Lys Thr Thr	2085	Lys Ile Ala Cys
2090	Lys Ser Pro Pro Pro Glu	2095	Ser Met Asp Thr Pro	2100	Thr Ser Thr Arg
2105	Arg Arg Pro Lys Thr Pro	2110	Leu Gly Lys Arg Asp	2115	Ile Val Glu Glu
2120	Leu Ser Ala Leu Lys Gln	2125	Leu Thr Gln Thr Thr	2130	His Thr Asp Lys
2135	Val Pro Gly Asp Glu Asp	2140	Lys Gly Ile Asn Val	2145	Phe Arg Glu Thr
2150	Ala Lys Gln Lys Leu Asp	2155	Pro Ala Ala Ser Val	2160	Thr Gly Ser Lys
2165	Arg Gln Pro Arg Thr Pro	2170	Lys Gly Lys Ala Gln	2175	Pro Leu Glu Asp
2180		2185		2190	

Leu	Ala	Gly	Leu	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Val	Cys	Thr	Asp
2195						2200					2205			
Lys	Pro	Thr	Thr	His	Glu	Lys	Thr	Thr	Lys	Ile	Ala	Cys	Arg	Ser
2210						2215					2220			
Pro	Gln	Pro	Asp	Pro	Val	Gly	Thr	Pro	Thr	Ile	Phe	Lys	Pro	Gln
2225						2230					2235			
Ser	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	Val	Glu	Glu	Glu	Ser	Leu
2240						2245					2250			
Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Val	Gly	Lys	Ala	Met	Asp	Thr
2255						2260					2265			
Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	Asp	Met	Lys	Ala	Phe	Met
2270						2275					2280			
Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Pro	Gly	Asn	Leu	Pro	Gly
2285						2290					2295			
Ser	Lys	Arg	Trp	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	Gln	Ala	Leu
2300						2305					2310			
Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Gly	Thr
2315						2320					2325			
Asp	Lys	Pro	Thr	Thr	Asp	Glu	Lys	Thr	Thr	Lys	Ile	Ala	Cys	Lys
2330						2335					2340			
Ser	Pro	Gln	Pro	Asp	Pro	Val	Asp	Thr	Pro	Ala	Ser	Thr	Lys	Gln
2345						2350					2355			
Arg	Pro	Lys	Arg	Asn	Leu	Arg	Lys	Ala	Asp	Val	Glu	Glu	Glu	Phe
2360						2365					2370			
Leu	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Ala	Gly	Lys	Ala	Met	Asp
2375						2380					2385			
Thr	Pro	Lys	Pro	Ala	Val	Ser	Asp	Glu	Lys	Asn	Ile	Asn	Thr	Phe
2390						2395					2400			
Val	Glu	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Leu	Gly	Asn	Leu	Pro
2405						2410					2415			
Gly	Ser	Lys	Arg	Gln	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	Glu	Ala
2420						2425					2430			
Leu	Glu	Asp	Leu	Val	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Gly
2435						2440					2445			
His	Thr	Glu	Glu	Ser	Met	Thr	Asp	Asp	Lys	Ile	Thr	Glu	Val	Ser
2450						2455					2460			
Cys	Lys	Ser	Pro	Gln	Pro	Glu	Ser	Phe	Lys	Thr	Ser	Arg	Ser	Ser
2465						2470					2475			
Lys	Gln	Arg	Leu	Lys	Ile	Pro	Leu	Val	Lys	Val	Asp	Met	Lys	Glu
2480						2485					2490			
Glu	Pro	Leu	Ala	Val	Ser	Lys	Leu	Thr	Arg	Thr	Ser	Gly	Glu	Thr
2495						2500					2505			
Thr	Gln	Thr	His	Thr	Glu	Pro	Thr	Gly	Asp	Ser	Lys	Ser	Ile	Lys
2510						2515					2520			
Ala	Phe	Lys	Glu	Ser	Pro	Lys	Gln	Ile	Leu	Asp	Pro	Ala	Ala	Ser
2525						2530					2535			
Val	Thr	Gly	Ser	Arg	Arg	Gln	Leu	Arg	Thr	Arg	Lys	Glu	Lys	Ala
2540						2545					2550			
Arg	Ala	Leu	Glu	Asp	Leu	Val	Asp	Phe	Lys	Glu	Leu	Phe	Ser	Ala
2555						2560					2565			
Pro	Gly	His	Thr	Glu	Glu	Ser	Met	Thr	Ile	Asp	Lys	Asn	Thr	Lys
2570						2575					2580			
Ile	Pro	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Leu	Thr	Asp	Thr	Ala	Thr
2585						2590					2595			
Ser	Thr	Lys	Arg	Cys	Pro	Lys	Thr	Arg	Pro	Arg	Lys	Glu	Val	Lys
2600						2605					2610			
Glu	Glu	Leu	Ser	Ala	Val	Glu	Arg	Leu	Thr	Gln	Thr	Ser	Gly	Gln
2615						2620					2625			
Ser	Thr	His	Thr	His	Lys	Glu	Pro	Ala	Ser	Gly	Asp	Glu	Gly	Ile
2630						2635					2640			
Lys	Val	Leu	Lys	Gln	Arg	Ala	Lys	Lys	Lys	Pro	Asn	Pro	Val	Glu
2645						2650					2655			
Glu	Glu	Pro	Ser	Arg	Arg	Arg	Pro	Arg	Ala	Pro	Lys	Glu	Lys	Ala
2660						2665					2670			
Gln	Pro	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Thr	Glu	Leu	Ser	Glu	Thr
2675						2680					2685			
Ser	Gly	His	Thr	Gln	Glu	Ser	Leu	Thr	Ala	Gly	Lys	Ala	Thr	Lys
2690						2695					2700			
Ile	Pro	Cys	Glu	Ser	Pro	Pro	Leu	Glu	Val	Val	Asp	Thr	Thr	Ala

2705	Ser Thr Lys Arg His Leu	2710	Arg Thr Arg Val Gln	2715	Lys Val Gln Val
2720	Lys Glu Glu Pro Ser Ala	2725	Val Lys Phe Thr Gln	2730	Thr Ser Gly Glu
2735	Thr Thr Asp Ala Asp Lys	2740	Pro Ala Gly Glu	2745	Asp Lys Gly Ile
2750	Lys Ala Leu Lys Glu Ser	2755	Lys Gln Thr Pro	2760	Ala Pro Ala Ala
2765	Ser Val Thr Gly Ser Arg	2770	Arg Pro Arg Ala	2775	Pro Arg Glu Ser
2780	Ala Gln Ala Ile Glu Asp	2785	Ala Gly Phe Lys	2790	Asp Pro Ala Ala
2795	Gly His Thr Glu Glu Ser	2800	Thr Asp Asp Lys	2805	Thr Thr Lys Ile
2810	Pro Cys Lys Ser Ser Pro	2815	Leu Glu Asp Thr	2820	Ala Thr Ser Ser
2825	Lys Arg Arg Pro Arg Thr	2830	Ala Gln Lys Val	2835	Glu Val Lys Glu
2840	Glu Leu Leu Ala Val Gly	2845	Leu Thr Gln Thr	2850	Ser Gly Glu Thr
2855	Thr His Thr Asp Lys Glu	2860	Val Gly Glu Gly	2865	Lys Gly Thr Lys
2870	Ala Phe Lys Gln Pro Ala	2875	Arg Asn Val Asp	2880	Ala Glu Asp Val
2885	Ile Gly Ser Arg Arg Gln	2890	Arg Ala Pro Lys	2895	Glu Lys Ala Gln
2900	Pro Leu Glu Asp Leu Ala	2905	Phe Gln Glu Leu	2910	Ser Gln Thr Pro
2915	Gly His Thr Glu Glu Leu	2920	Asn Gly Ala Ala	2925	Asp Ser Phe Thr
2930	Ser Ala Pro Lys Gln Thr	2935	Pro Asp Ser Gly Lys	2940	Pro Leu Lys Ile
2945	Ser Arg Arg Val Leu Arg	2950	Ala Pro Lys Val Glu	2955	Pro Val Gly Asp
2960	Val Val Ser Thr Arg Asp	2965	Pro Val Lys Ser Gln	2970	Ser Lys Ser Asn
2975	Thr Ser Leu Pro Pro Leu	2980	Pro Phe Lys Arg Gly	2985	Gly Gly Lys Asp
2990	Gly Ser Val Thr Gly Thr	2995	Lys Arg Leu Arg Cys	3000	Met Pro Ala Pro
3005	Glu Glu Ile Val Glu Glu	3010	Leu Pro Ala Ser Lys	3015	Lys Gln Arg Val
3020	Ala Pro Arg Ala Arg Gly	3025	Lys Ser Ser Glu Pro	3030	Val Val Ile Met
3035	Lys Arg Ser Leu Arg Thr	3040	Ser Ala Lys Arg Ile	3045	Glu Pro Ala Glu
3050	Glu Leu Asn Ser Asn Asp	3055	Met Lys Thr Asn Lys	3060	Glu Glu His Lys
3065	Leu Gln Asp Ser Val Pro	3070	Glu Asn Lys Gly Ile	3075	Ser Leu Arg Ser
3080	Arg Arg Gln Asp Lys Thr	3085	Glu Ala Glu Gln Gln	3090	Ile Thr Glu Val
3095	Phe Val Leu Ala Glu Arg	3100	Ile Glu Ile Asn Arg	3105	Asn Glu Lys Lys
3110	Pro Met Lys Thr Ser Pro	3115	Glu Met Asp Ile Gln	3120	Asn Pro Asp Asp
3125	Gly Ala Arg Lys Pro Ile	3130	Pro Arg Asp Lys Val	3135	Thr Glu Asn Lys
3140	Arg Cys Leu Arg Ser Ala	3145	Arg Gln Asn Glu Ser	3150	Ser Gln Pro Lys
3155	Val Ala Glu Glu Ser Gly	3160	Gly Gln Lys Ser Ala	3165	Lys Val Leu Met
3170	Gln Asn Gln Lys Gly Lys	3175	Gly Glu Ala Gly Asn	3180	Ser Asp Ser Met
3185	Cys Leu Arg Ser Arg Lys	3190	Thr Lys Ser Gln Pro	3195	Ala Ala Ser Thr
3200	Leu Glu Ser Lys Ser Val	3205	Gln Arg Val Thr Arg	3210	Ser Val Lys Arg
3215		3220		3225	

Cys Ala Glu Asn Pro Lys Lys Ala Glu Asp Asn Val Cys Val Lys  
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 Lys Ile Thr Thr Arg Ser His Arg Asp Ser Glu Asp Ile  
 3245 3250 3255

<210> 258  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens  
 <400> 258

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 Leu Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met  
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 Thr Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu  
 35 40 45  
 Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile  
 50 55 60  
 Gly Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu  
 65 70 75 80  
 Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln  
 85 90 95  
 Thr Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr  
 100 105 110  
 Thr Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly  
 115 120 125  
 Ser Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu  
 130 135 140  
 Ala Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys  
 145 150 155 160

<210> 259  
 <211> 1844  
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 <213> Homo sapiens  
 <400> 259

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 Lys Val Leu Thr Leu Val Ser Gln Ile Asp Val Asn Asn Glu Phe Glu  
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 Lys Leu Gln Arg Glu Arg Gly Leu Gly Ser Glu Lys His Arg Lys Glu  
 35 40 45  
 Val Ser Asp Leu Ile Lys Glu Cys Arg Gln Ser Leu Ala Glu Ser Leu  
 50 55 60  
 Phe Ala Trp Ala Cys Gln Ser Pro Leu Gly Lys Glu Asp Thr Leu Leu  
 65 70 75 80  
 Leu Ile Gly His Leu Glu Arg Val Thr Val Glu Ala Asn Gly Ser Leu  
 85 90 95  
 Asp Ala Val Asn Leu Ala Leu Leu Met Ala Leu Leu Tyr Cys Phe Asp  
 100 105 110  
 Ile Ser Phe Ile Glu Gln Ser Thr Glu Glu Arg Asp Asp Met Ile His  
 115 120 125  
 Gln Leu Pro Leu Leu Thr Glu Lys Gln Tyr Ile Ala Thr Ile His Ser  
 130 135 140  
 Arg Leu Gln Asp Ser Gln Leu Trp Lys Leu Pro Gly Leu Gln Ala Thr  
 145 150 155 160  
 Val Arg Leu Ala Trp Ala Leu Ala Leu Arg Gly Ile Ser Gln Leu Pro  
 165 170 175  
 Asp Val Thr Ala Leu Ala Glu Phe Thr Glu Ala Asp Glu Ala Met Ala  
 180 185 190  
 Glu Leu Ala Ile Ala Asp Asn Val Phe Leu Phe Leu Met Glu Ser Val  
 195 200 205  
 Val Val Ser Glu Tyr Phe Tyr Gln Glu Glu Phe Tyr Ile Arg Arg Val  
 210 215 220  
 His Asn Leu Ile Thr Asp Phe Leu Ala Leu Met Pro Met Lys Val Lys  
 225 230 235 240  
 Gln Leu Arg Asn Arg Ala Asp Glu Asp Ala Arg Met Ile His Met Ser  
 245 250 255  
 Met Gln Met Gly Asn Glu Pro Pro Ile Ser Leu Arg Arg Asp Leu Glu

[illegible]



Ile His Ile Leu Asn Leu Leu Ile Thr Ser Leu Glu Cys Asn Pro Pro  
 820 825 830  
 Asn Leu Ala Leu Tyr Leu Leu Gly Phe Glu Leu Lys Lys Pro Val Ser  
 835 840 845  
 Thr Thr Asn Leu Gln Asp Pro Gly Val Leu Gly Cys Pro Arg Thr Cys  
 850 855 860  
 Leu His Ala Ile Leu Asn Ile Leu Glu Lys Gly Thr Glu Gly Arg Thr  
 865 870 875 880  
 Gly Pro Val Ala Val Arg Glu Ser Pro Gln Leu Ala Glu Leu Cys Tyr  
 885 890 895  
 Gln Val Ile Tyr Gln Leu Cys Ala Cys Ser Asp Thr Ser Gly Pro Thr  
 900 905 910  
 Met Arg Tyr Leu Arg Thr Ser Gln Asp Phe Leu Phe Ser Gln Leu Gln  
 915 920 925  
 Tyr Leu Pro Phe Ser Asn Lys Glu Tyr Glu Ile Ser Met Leu Asn Gln  
 930 935 940  
 Met Ser Trp Leu Met Lys Thr Ala Ser Ile Glu Leu Arg Val Thr Ser  
 945 950 955 960  
 Leu Asn Arg Gln Arg Ser His Thr Gln Arg Leu Leu His Leu Leu  
 965 970 975  
 Asp Asp Met Pro Val Lys Pro Tyr Ser Asp Gly Glu Gly Gly Ile Glu  
 980 985 990  
 Asp Glu Asn Arg Ser Val Ser Gly Phe Leu His Phe Asp Thr Ala Thr  
 995 1000 1005  
 Lys Val Arg Arg Lys Ile Leu Asn Ile Leu Asp Ser Ile Asp Phe  
 1010 1015 1020  
 Ser Gln Glu Ile Pro Glu Pro Leu Gln Leu Asp Phe Phe Asp Arg  
 1025 1030 1035  
 Ala Gln Ile Glu Gln Val Ile Ala Asn Cys Glu His Lys Asn Leu  
 1040 1045 1050  
 Arg Gly Gln Thr Val Cys Asn Val Lys Leu Leu His Arg Val Leu  
 1055 1060 1065  
 Val Ala Glu Val Asn Ala Leu Gln Gly Met Ala Ala Ile Gly Gln  
 1070 1075 1080  
 Arg Pro Leu Leu Met Glu Glu Ile Ser Thr Val Leu Gln Tyr Val  
 1085 1090 1095  
 Val Gly Arg Asn Lys Leu Leu Gln Cys Leu His Ala Lys Arg His  
 1100 1105 1110  
 Ala Leu Glu Ser Trp Arg Gln Leu Val Glu Ile Ile Leu Thr Ala  
 1115 1120 1125  
 Cys Pro Gln Asp Leu Ile Gln Ala Glu Asp Arg Gln Leu Ile Ile  
 1130 1135 1140  
 Arg Asp Ile Leu Gln Asp Val His Asp Lys Ile Leu Asp Asp Glu  
 1145 1150 1155  
 Ala Ala Gln Glu Leu Met Pro Val Val Ala Gly Ala Val Phe Thr  
 1160 1165 1170  
 Leu Thr Ala His Leu Ser Gln Ala Val Leu Thr Glu Gln Lys Glu  
 1175 1180 1185  
 Thr Ser Val Leu Gly Pro Ala Glu Ala His Tyr Ala Phe Met Leu  
 1190 1195 1200  
 Asp Ser Cys Phe Thr Ser Pro Pro Pro Glu Glu Asn Pro Leu Val  
 1205 1210 1215  
 Gly Phe Ala Ser Ile Gly Asp Ser Ser Leu Tyr Ile Ile Leu Lys  
 1220 1225 1230  
 Lys Leu Leu Asp Phe Ile Leu Lys Thr Gly Gly Gly Phe Gln Arg  
 1235 1240 1245  
 Val Arg Thr His Leu Tyr Gly Ser Leu Leu Tyr Tyr Leu Gln Ile  
 1250 1255 1260  
 Ala Gln Arg Pro Asp Glu Pro Asp Thr Leu Glu Ala Ala Lys Lys  
 1265 1270 1275  
 Thr Met Trp Glu Arg Leu Thr Ala Pro Glu Asp Val Phe Ser Lys  
 1280 1285 1290  
 Leu Gln Arg Glu Asn Ile Ala Ile Ile Glu Ser Tyr Gly Ala Ala  
 1295 1300 1305  
 Leu Met Glu Val Val Cys Arg Asp Ala Cys Asp Gly His Glu Ile  
 1310 1315 1320  
 Gly Arg Met Leu Ala Leu Ala Leu Leu Asp Arg Ile Val Ser Val  
 1325 1330 1335  
 Asp Lys Gln Gln Gln Trp Leu Leu Tyr Leu Ser Asn Ser Gly Tyr

1340	Leu Lys Val Leu Val Asp	1345	Leu Val Glu Asp	1350	Asp Arg Thr Leu
1355	Gln Ser Leu Leu Thr Pro	1360	Pro Pro Leu Leu Lys	1365	Ala Leu Tyr
1370	Thr Tyr Glu Ser Lys Met	1375	Phe Leu Thr Arg Val	1380	Ala Lys Ile
1385	Gln Gln Gly Ala Leu Glu	1390	Leu Arg Ser Gly Val	1395	Ile Val Arg
1400	Leu Ala Gln Cys Gln Val	1405	Asp Met Arg Pro Glu	1410	Thr Asp Pro
1415	Gln Ser Met Phe Gly Met	1420	Asp Pro Pro Met Phe	1425	Ile Pro Thr
1430	Pro Val Asp Arg Tyr Arg	1435	Ile Leu Leu Pro Ala	1440	Leu Gln Leu
1445	Cys Gln Val Ile Leu Thr	1450	Ser Met Ala Gln His	1455	Leu Gln Ala
1460	Ala Gly Gln Val Leu Gln	1465	Leu Ile Ser His Ser	1470	Asp Thr Ile
1475	Gln Ala Ile Leu Arg Cys	1480	Asp Val Ser Ala Gly	1485	Ser Leu Gln
1490	Glu Leu Ala Leu Leu Thr	1495	Ile Ile Ser Lys Ala	1500	Ala Leu Pro
1505	Gly Ile Leu Ser Glu Leu	1510	Val Asp Val Asn Glu	1515	Gly Ser Leu
1520	Met Glu Leu Gln Gly His	1525	Gly Arg Phe Gln Arg	1530	Gln Cys Leu
1535	Gly Leu Leu Ser Arg Phe	1540	Gly Ser Asp Arg Leu	1545	Arg Gln Phe
1550	Lys Phe Gln Asp Asp Asn	1555	Glu Gly Asp Lys Val	1560	Ser Lys Lys
1565	Asp Glu Ile Glu Leu Ala	1570	Gln Gln Ile Cys Ala	1575	Asn Val Met
1580	Glu Tyr Cys Gln Ser Leu	1585	Leu Gln Ser Ser Pro	1590	Thr Phe Gln
1595	His Ala Val Cys Leu Phe	1600	Pro Ser Leu Ser Glu	1605	Thr Val Asn
1610	Arg Asp Gly Pro Arg Gln	1615	Thr Gln Ala Pro Val	1620	Val Pro Tyr
1625	Trp Arg Leu Pro Gly Leu	1630	Ile Ile Ile Tyr Leu	1635	Leu Lys Gln
1640	Ser Ala Asn Asp Phe Phe	1645	Tyr Tyr Asp Ser His	1650	Arg Gln Ser
1655	Val Ser Lys Leu Gln Asn	1660	Glu Gln Leu Pro Pro	1665	Asp Glu Ile
1670	Lys Glu Leu Cys Gln Ser	1675	Met Pro Ala Gly Val	1680	Asp Lys Ile
1685	Ser Thr Ala Gln Lys Tyr	1690	Leu Ala Arg Arg Arg	1695	Leu Val Lys
1700	Val Ile Asn Asn Arg Ala	1705	Leu Leu Ser Leu Cys	1710	Ser Phe Ile
1715	Ile Glu Thr Cys Leu Phe	1720	Leu Trp Arg His Leu	1725	Glu Tyr Tyr
1730	Leu Leu His Cys Met Pro	1735	Asp Ser Gln Asp Ser	1740	Leu Phe Ala
1745	Ser Arg Thr Leu Phe Lys	1750	Arg Arg Leu Gln Asp	1755	Ser Phe Ala
1760	Ser Glu Thr Asn Leu Asp	1765	Arg Ser Gly Leu Ala	1770	Ile Val Ser
1775	Gln His Asp Leu Asp Gln	1780	Gln Ala Asp Ala Ile	1785	Asn Ala Phe
1790	Gly Glu Ser Leu Gln Lys	1795	Leu Leu Asp Ile Glu	1800	Gly Leu Tyr
1805	Ser Lys Val Arg Ser Arg	1810	Ser Phe Ile Gln Ala	1815	Leu Val Arg
1820	Arg Ile Arg Gly Leu Leu	1825	Ile Ser Arg Asn	1830	
1835		1840			

&lt;210&gt; 260

<211> 1299  
 <212> PRT  
 <213> Homo sapiens  
 <400> 260  
 Met Ala Ala Glu Thr Gln Thr Leu Asn Phe Gly Pro Glu Trp Leu Arg  
 1 5 10 15  
 Ala Leu Ser Ser Gly Gly Ser Ile Thr Ser Pro Pro Leu Ser Pro Ala  
 20 25 30  
 Leu Pro Lys Tyr Lys Leu Ala Asp Tyr Arg Tyr Gly Arg Glu Glu Met  
 35 40 45  
 Leu Ala Leu Phe Leu Lys Asp Asn Lys Ile Pro Ser Asp Leu Leu Asp  
 50 55 60  
 Lys Glu Phe Leu Pro Ile Leu Gln Glu Glu Pro Leu Pro Pro Leu Ala  
 65 70 75 80  
 Leu Val Pro Phe Thr Glu Glu Glu Gln Arg Asn Phe Ser Met Ser Val  
 85 90 95  
 Asn Ser Ala Ala Val Leu Arg Leu Thr Gly Arg Gly Gly Gly Thr  
 100 105 110  
 Val Val Gly Ala Pro Arg Gly Arg Ser Ser Ser Arg Gly Arg Gly Arg  
 115 120 125  
 Gly Arg Gly Glu Cys Gly Phe Tyr Gln Arg Ser Phe Asp Glu Val Glu  
 130 135 140  
 Gly Val Phe Gly Arg Gly Gly Gly Arg Glu Met His Arg Ser Gln Ser  
 145 150 155 160  
 Trp Glu Glu Arg Gly Asp Arg Arg Phe Glu Lys Pro Gly Arg Lys Asp  
 165 170 175  
 Val Gly Arg Pro Asn Phe Glu Glu Gly Gly Pro Thr Ser Val Gly Arg  
 180 185 190  
 Lys His Glu Phe Ile Arg Ser Glu Ser Glu Asn Trp Arg Ile Phe Arg  
 195 200 205  
 Glu Glu Gln Asn Gly Glu Asp Glu Asp Gly Gly Trp Arg Leu Ala Gly  
 210 215 220  
 Ser Arg Arg Asp Gly Glu Arg Trp Arg Pro His Ser Pro Asp Gly Pro  
 225 230 235 240  
 Arg Ser Ala Gly Trp Arg Glu His Met Glu Arg Arg Arg Arg Phe Glu  
 245 250 255  
 Phe Asp Phe Arg Asp Arg Asp Asp Glu Arg Gly Tyr Arg Arg Val Arg  
 260 265 270  
 Ser Gly Ser Gly Ser Ile Asp Asp Asp Arg Asp Ser Leu Pro Glu Trp  
 275 280 285  
 Cys Leu Glu Asp Ala Glu Glu Met Gly Thr Phe Asp Ser Ser Gly  
 290 295 300  
 Ala Phe Leu Ser Leu Lys Lys Val Gln Lys Glu Pro Ile Pro Glu Glu  
 305 310 315 320  
 Gln Glu Met Asp Phe Arg Pro Val Asp Glu Gly Glu Glu Cys Ser Asp  
 325 330 335  
 Ser Glu Gly Ser His Asn Glu Glu Ala Lys Glu Pro Asp Lys Thr Asn  
 340 345 350  
 Lys Lys Glu Gly Glu Lys Thr Asp Arg Val Gly Val Glu Ala Ser Glu  
 355 360 365  
 Glu Thr Pro Gln Thr Ser Ser Ser Ser Ala Arg Pro Gly Thr Pro Ser  
 370 375 380  
 Asp His Gln Ser Gln Glu Ala Ser Gln Phe Glu Arg Lys Asp Glu Pro  
 385 390 395 400  
 Lys Thr Glu Gln Thr Glu Lys Ala Glu Glu Thr Arg Met Glu Asn  
 405 410 415  
 Ser Leu Pro Ala Lys Val Pro Ser Arg Gly Asp Glu Met Val Ala Asp  
 420 425 430  
 Val Gln Gln Pro Leu Ser Gln Ile Pro Ser Asp Thr Ala Ser Pro Leu  
 435 440 445  
 Leu Ile Leu Pro Pro Pro Val Pro Asn Pro Ser Pro Thr Leu Arg Pro  
 450 455 460  
 Val Glu Thr Pro Val Val Gly Ala Pro Gly Met Gly Ser Val Ser Thr  
 465 470 475 480  
 Glu Pro Asp Asp Glu Gly Leu Lys His Leu Glu Gln Gln Ala Glu  
 485 490 495  
 Lys Met Val Ala Tyr Leu Gln Asp Ser Ala Leu Asp Asp Glu Arg Leu  
 500 505 510  
 Ala Ser Lys Leu Gln Glu His Arg Ala Lys Gly Val Ser Ile Pro Leu

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Ala Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp Asp Ala Val  
 1070 1075 1080  
 Lys Glu Val Gly Pro Arg Asn Ser Thr Asn Lys Asn Lys Asn Asn  
 1085 1090 1095  
 Ala Ser Leu Ser Lys Ser Val Gly Val Ser Asn Arg Gln Asn Lys  
 1100 1105 1110  
 Lys Val Glu Glu Glu Glu Lys Leu Leu Lys Leu Phe Gln Gly Val  
 1115 1120 1125  
 Asn Lys Ala Gln Asp Gly Phe Thr Gln Trp Cys Glu Gln Met Leu  
 1130 1135 1140  
 His Ala Leu Asn Thr Ala Asn Asn Leu Gly Val Pro Thr Phe Val  
 1145 1150 1155  
 Ser Phe Leu Lys Glu Val Glu Ser Pro Tyr Glu Val His Asp Tyr  
 1160 1165 1170  
 Ile Arg Ala Tyr Leu Gly Asp Thr Ser Glu Ala Lys Glu Phe Ala  
 1175 1180 1185  
 Lys Gln Phe Leu Glu Arg Arg Ala Lys Gln Lys Ala Asn Gln Gln  
 1190 1195 1200  
 Arg Gln Gln Gln Gln Leu Pro Gln Gln Gln Gln Gln Gln Pro Pro  
 1205 1210 1215  
 Gln Gln Pro Pro Gln Gln Pro Gln Gln Gln Asp Ser Val Trp Gly  
 1220 1225 1230  
 Met Asn His Ser Thr Leu His Ser Val Phe Gln Thr Asn Gln Ser  
 1235 1240 1245  
 Asn Asn Gln Gln Ser Asn Phe Glu Ala Val Gln Ser Gly Lys Lys  
 1250 1255 1260  
 Lys Lys Lys Gln Lys Met Val Arg Ala Asp Pro Ser Leu Leu Gly  
 1265 1270 1275  
 Phe Ser Val Asn Ala Ser Ser Glu Arg Leu Asn Met Gly Glu Ile  
 1280 1285 1290  
 Glu Thr Leu Asp Asp Tyr  
 1295

<210> 261  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens  
 <400> 261

Met Ser Gly Cys Arg Val Phe Ile Gly Arg Leu Asn Pro Ala Ala Arg  
 1 5 10 15  
 Glu Lys Asp Val Glu Arg Phe Phe Lys Gly Tyr Gly Arg Ile Arg Asp  
 20 25 30  
 Ile Asp Leu Lys Arg Gly Phe Gly Phe Val Glu Phe Glu Asp Pro Arg  
 35 40 45  
 Asp Ala Asp Asp Ala Val Tyr Glu Leu Asp Gly Lys Glu Leu Cys Ser  
 50 55 60  
 Glu Arg Val Thr Ile Glu His Ala Arg Ala Arg Ser Arg Gly Gly Arg  
 65 70 75 80  
 Gly Arg Gly Arg Tyr Ser Asp Arg Phe Ser Ser Arg Arg Pro Arg Asn  
 85 90 95  
 Asp Arg Arg Tyr Val Lys Gly Gly Trp Leu His  
 100 105

<210> 262  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens  
 <400> 262

Met Val Arg Tyr Ser Leu Asp Pro Glu Asn Pro Thr Lys Ser Cys Lys  
 1 5 10 15  
 Ser Arg Gly Ser Asn Leu Arg Val His Phe Lys Asn Thr Arg Glu Thr  
 20 25 30  
 Ala Gln Ala Ile Lys Gly Met His Ile Arg Lys Ala Thr Lys Tyr Leu  
 35 40 45  
 Lys Asp Val Thr Leu Gln Lys Gln Cys Val Pro Phe Arg Arg Tyr Asn  
 50 55 60  
 Gly Gly Val Gly Arg Cys Ala Gln Ala Lys Gln Trp Gly Trp Thr Gln  
 65 70 75 80  
 Gly Arg Trp Pro Lys Lys Ser Ala Glu Phe Leu Leu His Met Leu Lys

Asn	Ala	Glu	Ser	85	Asn	Ala	Glu	Leu	Lys	90	Gly	Leu	Asp	Val	Asp	95	Ser	Leu
Val	Ile	Glu	His	100	Ile	Gln	Val	Asn	Lys	105	Ala	Pro	Lys	Met	Arg	110	Arg	Arg
Thr	Tyr	Arg	Ala	115	His	Gly	Arg	Ile	Asn	120	Pro	Tyr	Met	Ser	Ser	125	Pro	Cys
His	Ile	Glu	Met	130	Ile	Leu	Thr	Glu	Lys	135	Glu	Gln	Ile	Val	Pro	140	Lys	Pro
Glu	Glu	Glu	Val	145	Ala	Gln	Lys	Lys	Lys	150	Ile	Ser	Gln	Lys	Lys	155	Leu	Lys
Lys	Gln	Lys	Leu	165	Met	Ala	Arg	Glu		170						175		
				180														

<210> 263  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens  
 <400> 263

Met	Ser	Ser	Lys	1	Thr	Ala	Ser	Thr	Asn	Asn	Ile	Ala	Gln	Ala	Arg	Arg
Thr	Val	Gln	Gln	5	Leu	Arg	Leu	Glu	Ala	10	Ser	Ile	Glu	Arg	Ile	15
Ser	Lys	Ala	Ser	20	Ala	Asp	Leu	Met	Ser	25	Tyr	Cys	Glu	Glu	His	30
Ser	Asp	Pro	Leu	35	Leu	Ile	Gly	Ile	Pro	40	Thr	Ser	Glu	Asn	Pro	45
Asp	Lys	Lys	Thr	50	Cys	Ile	Ile	Leu		55			60			60
				65						70						

<210> 264  
 <211> 462  
 <212> PRT  
 <213> Homo sapiens  
 <400> 264

Met	Lys	Thr	Arg	1	Arg	Thr	Thr	Arg	Leu	Gln	Gln	Gln	His	Ser	Glu	Gln
Pro	Pro	Leu	Gln	5	Pro	Ser	Pro	Val	Thr	10	Thr	Arg	Arg	Gly	Leu	15
Ser	His	Ser	Ser	20	Glu	Glu	Asp	Glu	Ala	25	Ser	Ser	Gln	Thr	Asp	30
Gln	Thr	Ile	Ser	35	Lys	Lys	Thr	Val	Arg	40	Ser	Ile	Gln	Glu	Ala	45
Ser	Glu	Asp	Leu	50	Val	Ile	Arg	Leu	Arg	55	Pro	Pro	Leu	Arg	Cys	60
Arg	Tyr	Glu	Ala	65	Thr	Ser	Val	Gln	Gln	70	Lys	Val	Asn	Phe	Ser	75
Gly	Glu	Thr	Glu	85	Glu	Asp	Asp	Gln	Asp	90	Ser	Ser	His	Ser	Ser	95
Thr	Val	Lys	Ala	100	Arg	Ser	Arg	Asp	Ser	105	Asp	Glu	Ser	Gly	Asp	110
Thr	Arg	Ser	Ser	115	Ser	Gln	Tyr	Ile	Glu	120	Ser	Phe	Trp	Gln	Ser	125
Ser	Gln	Asn	Phe	130	Thr	Ala	His	Asp	Lys	135	Gln	Arg	Ser	Val	Leu	140
Gly	Tyr	Gln	Lys	145	Thr	Pro	Gln	Glu	Trp	150	Ala	Pro	Gln	Thr	Ala	155
Arg	Thr	Arg	Met	165	Gln	Asn	Asp	Ser	Ile	170	Leu	Lys	Ser	Glu	Leu	175
Gln	Ser	Pro	Ser	180	Thr	Ser	Ser	Arg	Gln	185	Val	Thr	Gly	Gln	Pro	190
Ala	Ser	Phe	Val	195	Lys	Arg	Asn	Arg	Trp	200	Trp	Leu	Leu	Pro	Leu	205
Ala	Leu	Ala	Ser	210	Gly	Ser	Phe	Trp	Phe	215	Phe	Ser	Thr	Pro	Glu	220
Thr	Thr	Ala	Val	225	Gln	Glu	Phe	Gln	Asn	230	Gln	Met	Asn	Gln	Leu	235
Lys	Tyr	Gln	Gly	245	Gln	Asp	Glu	Lys	Leu	250	Trp	Lys	Arg	Ser	Gln	255
				260						265						270

Leu Glu Lys His Leu Asn Ser Ser His Pro Arg Ser Gln Pro Ala Ile  
 275 280 285  
 Leu Leu Leu Thr Ala Ala Arg Asp Ala Glu Glu Ala Leu Arg Cys Leu  
 290 295 300  
 Ser Glu Gln Ile Ala Asp Ala Tyr Ser Ser Phe Arg Ser Val Arg Ala  
 305 310 315 320  
 Ile Arg Ile Asp Gly Thr Asp Lys Ala Thr Gln Asp Ser Asp Thr Val  
 325 330 335  
 Lys Leu Glu Val Asp Gln Glu Leu Ser Asn Gly Phe Lys Asn Gly Gln  
 340 345 350  
 Asn Ala Ala Val Val His Arg Phe Glu Ser Phe Pro Ala Gly Ser Thr  
 355 360 365  
 Leu Ile Phe Tyr Lys Tyr Cys Asp His Glu Asn Ala Ala Phe Lys Asp  
 370 375 380  
 Val Ala Leu Val Leu Thr Val Leu Leu Glu Glu Glu Thr Leu Gly Thr  
 385 390 395 400  
 Ser Leu Gly Leu Lys Glu Val Glu Glu Lys Val Arg Asp Phe Leu Lys  
 405 410 415  
 Val Lys Phe Thr Asn Ser Asn Thr Pro Asn Ser Tyr Asn His Met Asp  
 420 425 430  
 Pro Asp Lys Leu Asn Gly Leu Trp Ser Arg Ile Ser His Leu Val Leu  
 435 440 445  
 Pro Val Gln Pro Glu Asn Ala Leu Lys Arg Gly Ile Cys Leu  
 450 455 460

<210> 265  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens  
 <400> 265

Met Phe Ser Gln Phe Thr Asp Ile Lys Arg Lys Asp Phe Gly Ile Met  
 1 5 10 15  
 Phe Leu His His Leu Val Ser Ile Phe Leu Ile Thr Phe Ser Tyr Val  
 20 25 30  
 Asn Asn Met Ala Arg Val Gly Thr Leu Val Leu Cys Leu His Asp Ser  
 35 40 45  
 Ala Asp Ala Leu Leu Glu Ala Ala Lys Met Ala Asn Tyr Ala Lys Phe  
 50 55 60  
 Gln Lys Met Cys Asp Leu Leu Phe Val Met Phe Ala Val Val Phe Ile  
 65 70 75 80  
 Thr Thr Arg Leu Gly Ile Phe Pro Leu Trp Val Leu Asn Thr Thr Leu  
 85 90 95  
 Phe Glu Ser Trp Glu Ile Val Gly Pro Tyr Pro Ser Trp Trp Val Phe  
 100 105 110  
 Asn Leu Leu Leu Leu Leu Val Gln Gly Leu Asn Cys Phe Trp Ser Tyr  
 115 120 125  
 Leu Ile Val Lys Ile Ala Cys Lys Ala Val Ser Arg Gly Lys Val Ser  
 130 135 140  
 Lys Asp Asp Arg Ser Asp Ile Glu Ser Ser Ser Asp Glu Glu Asp Ser  
 145 150 155 160  
 Glu Pro Pro Gly Lys Asn Pro His Thr Ala Thr Thr Thr Asn Gly Thr  
 165 170 175  
 Ser Gly Thr Asn Gly Tyr Leu Leu Thr Gly Ser Cys Ser Met Asp Asp  
 180 185 190

<210> 266  
 <211> 1838  
 <212> PRT  
 <213> Homo sapiens  
 <400> 266

Met Asp Val His Thr Arg Trp Lys Ala Arg Ser Ala Leu Arg Pro Gly  
 1 5 10 15  
 Ala Pro Leu Leu Pro Pro Leu Leu Leu Leu Leu Trp Ala Pro Pro  
 20 25 30  
 Pro Ser Arg Ala Ala Gln Pro Ala Asp Leu Leu Lys Val Leu Asp Phe  
 35 40 45  
 His Asn Leu Pro Asp Gly Ile Thr Lys Thr Thr Gly Phe Cys Ala Thr  
 50 55 60  
 Arg Arg Ser Ser Lys Gly Pro Asp Val Ala Tyr Arg Val Thr Lys Asp

65	Ala	Gln	Leu	Ser	Ala	Pro	Thr	Lys	Gln	Leu	Tyr	Pro	Ala	Ser	Ala	80
					85					90						95
Pro	Glu	Asp	Phe	Ser	Ile	Leu	Thr	Thr	Thr	Val	Lys	Ala	Lys	Lys	Gly	Ser
			100					105							110	
Gln	Ala	Phe	Leu	Val	Ser	Ile	Tyr	Asn	Glu	Gln	Gly	Ile	Gln	Gln	Ile	
		115					120						125			
Gly	Leu	Glu	Leu	Gly	Arg	Ser	Pro	Val	Phe	Leu	Tyr	Glu	Asp	His	Thr	
	130					135					140					
Gly	Lys	Pro	Gly	Pro	Glu	Asp	Tyr	Pro	Leu	Phe	Arg	Gly	Ile	Asn	Leu	
	145				150					155					160	
Ser	Asp	Gly	Lys	Trp	His	Arg	Ile	Ala	Leu	Ser	Val	His	Lys	Lys	Asn	
			165						170						175	
Val	Thr	Leu	Ile	Leu	Asp	Cys	Lys	Lys	Lys	Thr	Thr	Lys	Phe	Leu	Asp	
		180						185						190		
Arg	Ser	Asp	His	Pro	Met	Ile	Asp	Ile	Asn	Gly	Ile	Ile	Val	Phe	Gly	
	195						200						205			
Thr	Arg	Ile	Leu	Asp	Glu	Glu	Val	Phe	Glu	Gly	Asp	Ile	Gln	Gln	Leu	
	210				215						220					
Leu	Phe	Val	Ser	Asp	His	Arg	Ala	Ala	Tyr	Asp	Tyr	Cys	Glu	His	Tyr	
	225				230					235					240	
Ser	Pro	Asp	Cys	Asp	Thr	Ala	Val	Pro	Asp	Thr	Pro	Gln	Ser	Gln	Asp	
			245						250						255	
Pro	Asn	Pro	Asp	Glu	Tyr	Tyr	Thr	Glu	Gly	Asp	Gly	Glu	Gly	Glu	Thr	
			260					265						270		
Tyr	Tyr	Tyr	Glu	Tyr	Pro	Tyr	Tyr	Glu	Asp	Pro	Glu	Asp	Leu	Gly	Lys	
		275					280					285				
Glu	Pro	Thr	Pro	Ser	Lys	Lys	Pro	Val	Glu	Ala	Ala	Lys	Glu	Thr	Thr	
	290				295						300					
Glu	Val	Pro	Glu	Glu	Leu	Thr	Pro	Thr	Pro	Thr	Glu	Ala	Ala	Pro	Met	
	305				310						315				320	
Pro	Glu	Thr	Ser	Glu	Gly	Ala	Gly	Lys	Glu	Glu	Asp	Val	Gly	Ile	Gly	
			325						330					335		
Asp	Tyr	Asp	Tyr	Val	Pro	Ser	Glu	Asp	Tyr	Tyr	Thr	Pro	Ser	Pro	Tyr	
			340					345					350			
Asp	Asp	Leu	Thr	Tyr	Gly	Glu	Gly	Glu	Glu	Asn	Pro	Asp	Gln	Pro	Thr	
		355					360					365				
Asp	Pro	Gly	Ala	Gly	Ala	Glu	Ile	Pro	Thr	Ser	Thr	Ala	Asp	Thr	Ser	
	370				375						380					
Asn	Ser	Ser	Asn	Pro	Ala	Pro	Pro	Pro	Gly	Glu	Gly	Ala	Asp	Asp	Leu	
	385				390					395					400	
Glu	Gly	Glu	Phe	Thr	Glu	Glu	Thr	Ile	Arg	Asn	Leu	Asp	Glu	Asn	Tyr	
			405					410						415		
Tyr	Asp	Pro	Tyr	Tyr	Asp	Pro	Thr	Ser	Ser	Pro	Ser	Glu	Ile	Gly	Pro	
			420					425					430			
Gly	Met	Pro	Ala	Asn	Gln	Asp	Thr	Ile	Tyr	Glu	Gly	Ile	Gly	Gly	Pro	
		435					440					445				
Arg	Gly	Glu	Lys	Gly	Gln	Lys	Gly	Glu	Pro	Ala	Ile	Ile	Glu	Pro	Gly	
	450				455						460					
Met	Leu	Ile	Glu	Gly	Pro	Pro	Gly	Pro	Glu	Gly	Pro	Ala	Gly	Leu	Pro	
	465				470				475					480		
Gly	Pro	Pro	Gly	Thr	Met	Gly	Pro	Thr	Gly	Gln	Val	Gly	Asp	Pro	Gly	
			485					490						495		
Glu	Arg	Gly	Pro	Pro	Gly	Arg	Pro	Gly	Leu	Pro	Gly	Ala	Asp	Gly	Leu	
			500					505					510			
Pro	Gly	Pro	Pro	Gly	Thr	Met	Leu	Met	Leu	Pro	Phe	Arg	Phe	Gly	Gly	
		515					520					525				
Gly	Gly	Asp	Ala	Gly	Ser	Lys	Gly	Pro	Met	Val	Ser	Ala	Gln	Glu	Ser	
	530					535						540				
Gln	Ala	Gln	Ala	Ile	Leu	Gln	Gln	Ala	Arg	Leu	Ala	Leu	Arg	Gly	Pro	
	545				550				555						560	
Ala	Gly	Pro	Met	Gly	Leu	Thr	Gly	Arg	Pro	Gly	Pro	Val	Gly	Pro	Pro	
			565					570						575		
Gly	Ser	Gly	Gly	Leu	Lys	Gly	Glu	Pro	Gly	Asp	Val	Gly	Pro	Gln	Gly	
		580					585					590				
Pro	Arg	Gly	Val	Gln	Gly	Pro	Pro	Gly	Pro	Ala	Gly	Lys	Pro	Gly	Arg	
	595					600						605				
Arg	Gly	Arg	Ala	Gly	Ser	Asp	Gly	Ala	Arg	Gly	Met	Pro	Gly	Gln	Thr	
	610					615					620					



Gly Pro Lys Gly Asp Arg Gly Phe Asp Gly Leu Ala Gly Leu Pro Gly  
 625 630 635 640  
 Glu Lys Gly His Arg Gly Asp Pro Gly Pro Ser Gly Pro Pro Gly Pro  
 645 650 655  
 Pro Gly Asp Asp Gly Glu Arg Gly Asp Asp Gly Glu Val Gly Pro Arg  
 660 665 670  
 Gly Leu Pro Gly Glu Pro Gly Pro Arg Gly Leu Leu Gly Pro Lys Gly  
 675 680 685  
 Pro Pro Gly Pro Pro Gly Pro Pro Gly Val Thr Gly Met Asp Gly Gln  
 690 695 700  
 Pro Gly Pro Lys Gly Asn Val Gly Pro Gln Gly Glu Pro Gly Pro Pro  
 705 710 715 720  
 Gly Gln Gln Gly Asn Pro Gly Ala Gln Gly Leu Pro Gly Pro Gln Gly  
 725 730 735  
 Ala Ile Gly Pro Pro Gly Glu Lys Gly Pro Leu Gly Lys Pro Gly Leu  
 740 745 750  
 Pro Gly Met Pro Gly Ala Asp Gly Pro Pro Gly His Pro Gly Lys Glu  
 755 760 765  
 Gly Pro Pro Gly Glu Lys Gly Gly Gln Gly Pro Pro Gly Pro Gln Gly  
 770 775 780  
 Pro Ile Gly Tyr Pro Gly Pro Arg Gly Val Lys Gly Ala Asp Gly Ile  
 785 790 795 800  
 Arg Gly Leu Lys Gly Thr Lys Gly Glu Lys Gly Glu Asp Gly Phe Pro  
 805 810 815  
 Gly Phe Lys Gly Asp Met Gly Ile Lys Gly Asp Arg Gly Glu Ile Gly  
 820 825 830  
 Pro Pro Gly Pro Arg Gly Glu Asp Gly Pro Glu Gly Pro Lys Gly Arg  
 835 840 845  
 Gly Gly Pro Asn Gly Asp Pro Gly Pro Leu Gly Pro Pro Gly Glu Lys  
 850 855 860  
 Gly Lys Leu Gly Val Pro Gly Leu Pro Gly Tyr Pro Gly Arg Gln Gly  
 865 870 875 880  
 Pro Lys Gly Ser Ile Gly Phe Pro Gly Phe Pro Gly Ala Asn Gly Glu  
 885 890 895  
 Lys Gly Gly Arg Gly Thr Pro Gly Lys Pro Gly Pro Arg Gly Gln Arg  
 900 905 910  
 Gly Pro Thr Gly Pro Arg Gly Glu Arg Gly Pro Arg Gly Ile Thr Gly  
 915 920 925  
 Lys Pro Gly Pro Lys Gly Asn Ser Gly Gly Asp Gly Pro Ala Gly Pro  
 930 935 940  
 Pro Gly Glu Arg Gly Pro Asn Gly Pro Gln Gly Pro Thr Gly Phe Pro  
 945 950 955 960  
 Gly Pro Lys Gly Pro Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly  
 965 970 975  
 His Pro Gly Gln Arg Gly Glu Thr Gly Phe Gln Gly Lys Thr Gly Pro  
 980 985 990  
 Pro Gly Pro Pro Gly Val Val Gly Pro Gln Gly Pro Thr Gly Glu Thr  
 995 1000 1005  
 Gly Pro Met Gly Glu Arg Gly His Pro Gly Pro Pro Gly Pro Pro  
 1010 1015 1020  
 Gly Glu Gln Gly Leu Pro Gly Leu Ala Gly Lys Glu Gly Thr Lys  
 1025 1030 1035  
 Gly Asp Pro Gly Pro Ala Gly Leu Pro Gly Lys Asp Gly Pro Pro  
 1040 1045 1050  
 Gly Leu Arg Gly Phe Pro Gly Asp Arg Gly Leu Pro Gly Pro Val  
 1055 1060 1065  
 Gly Ala Leu Gly Leu Lys Gly Asn Glu Gly Pro Pro Gly Pro Pro  
 1070 1075 1080  
 Gly Pro Ala Gly Ser Pro Gly Glu Arg Gly Pro Ala Gly Ala Ala  
 1085 1090 1095  
 Gly Pro Ile Gly Ile Pro Gly Arg Pro Gly Pro Gln Gly Pro Pro  
 1100 1105 1110  
 Gly Pro Ala Gly Glu Lys Gly Ala Pro Gly Glu Lys Gly Pro Gln  
 1115 1120 1125  
 Gly Pro Ala Gly Arg Asp Gly Leu Gln Gly Pro Val Gly Leu Pro  
 1130 1135 1140  
 Gly Pro Ala Gly Pro Val Gly Pro Pro Gly Glu Asp Gly Asp Lys  
 1145 1150 1155  
 Gly Glu Ile Gly Glu Pro Gly Gln Lys Gly Ser Lys Gly Asp Lys

1160	Gly Glu	Gln Gly Pro Pro	1165	Gly Pro Thr Gly Pro	1170	Gln Gly Pro Ile
1175	Gly Gln	Pro Gly Pro Ser	1180	Gly Ala Asp Gly Glu	1185	Gly Pro Arg
1190	Gly Gln	Gln Gly Leu Phe	1195	Gly Gln Lys Gly Asp	1200	Gly Pro Arg
1205	Gly Phe	Pro Gly Pro Pro	1210	Gly Pro Val Gly Leu	1215	Gly Leu Pro
1220	Gly Pro	Pro Gly Glu Lys	1225	Gly Glu Thr Gly Asp	1230	Gly Gln Met
1235	Gly Pro	Pro Gly Pro Pro	1240	Gly Pro Arg Gly Pro	1245	Gly Ala Pro
1250	Gly Ala	Asp Gly Pro Gln	1255	Gly Pro Pro Gly Gly	1260	Gly Asn Pro
1265	Gly Ala	Val Gly Glu Lys	1270	Gly Glu Pro Gly Glu	1275	Gly Glu Pro
1280	Gly Pro	Ser Gly Arg Ser	1285	Gly Pro Pro Gly Pro	1290	Gly Glu Arg
1295	Gly Glu	Lys Gly Glu Ser	1300	Gly Pro Ser Gly Ala	1305	Gly Pro Pro
1310	Gly Pro	Lys Gly Pro Pro	1315	Gly Asp Asp Gly Pro	1320	Gly Ser Pro
1325	Gly Pro	Val Gly Phe Pro	1330	Gly Asp Pro Gly Pro	1335	Gly Glu Pro
1340	Gly Pro	Ala Gly Gln Asp	1345	Gly Pro Pro Gly Asp	1350	Gly Asp Asp
1355	Gly Glu	Pro Gly Gln Thr	1360	Gly Ser Pro Gly Pro	1365	Gly Glu Pro
1370	Gly Pro	Ser Gly Pro Pro	1375	Gly Lys Arg Gly Pro	1380	Gly Pro Ala
1385	Gly Pro	Glu Gly Arg Gln	1390	Gly Glu Lys Gly Ala	1395	Gly Glu Ala
1400	Gly Leu	Glu Gly Pro Pro	1405	Gly Lys Thr Gly Pro	1410	Gly Pro Gln
1415	Gly Ala	Pro Gly Lys Pro	1420	Gly Pro Asp Gly Leu	1425	Gly Ile Pro
1430	Gly Pro	Val Gly Glu Gln	1435	Gly Leu Pro Gly Ser	1440	Gly Pro Asp
1445	Gly Pro	Pro Gly Pro Met	1450	Gly Pro Pro Gly Leu	1455	Gly Leu Lys
1460	Gly Asp	Ser Gly Pro Lys	1465	Gly Glu Lys Gly His	1470	Gly Leu Ile
1475	Gly Leu	Ile Gly Pro Pro	1480	Gly Glu Gln Gly Glu	1485	Gly Asp Arg
1490	Gly Leu	Pro Gly Pro Gln	1495	Gly Ser Ser Gly Pro	1500	Gly Glu Gln
1505	Gly Ile	Thr Gly Pro Ser	1510	Gly Pro Ile Gly Pro	1515	Gly Pro Pro
1520	Gly Leu	Pro Gly Pro Pro	1525	Gly Pro Lys Gly Ala	1530	Gly Ser Ser
1535	Gly Pro	Thr Gly Pro Lys	1540	Gly Glu Ala Gly His	1545	Gly Pro Pro
1550	Gly Pro	Pro Gly Pro Pro	1555	Gly Glu Val Ile Gln	1560	Leu Pro Ile
1565	Gln Ala	Ser Arg Thr Arg	1570	Gly Asn Ile Asp Ala	1575	Gln Leu Leu
1580	Asp Asp	Gly Asn Gly Glu	1585	Gly Tyr Val Asp Tyr	1590	Asp Gly Met
1595	Glu Glu	Ile Phe Gly Ser	1600	Gly Asn Ser Leu Lys	1605	Glu Ile Glu
1610	Gln Met	Lys Arg Pro Leu	1615	Gly Thr Gln Gln Asn	1620	Ala Arg Thr
1625	Cys Lys	Asp Leu Gln Leu	1630	Gly His Pro Asp Phe	1635	Asp Gly Glu
1640	Tyr Trp	Val Asp Pro Asn	1645	Gly Gly Cys Ser Arg	1650	Ser Phe Lys
1655	Val Tyr	Cys Asn Phe Thr	1660	Gly Gly Ser Thr	1665	Val Phe Pro
1670			1675		1680	

Asp Lys Lys Ser Glu Gly Ala Arg Ile Thr Ser Trp Pro Lys Glu  
 1685 1690  
 Asn Pro Gly Ser Trp Phe Ser Glu Phe Lys Arg Gly Lys Leu Leu  
 1700 1705  
 Ser Tyr Val Asp Ala Glu Gly Asn Pro Val Gly Val Val Gln Met  
 1715 1720  
 Thr Phe Leu Arg Leu Leu Ser Ala Ser Ala His Gln Asn Val Thr  
 1730 1735  
 Tyr His Cys Tyr Gln Ser Val Ala Trp Gln Asp Ala Ala Thr Gly  
 1745 1750  
 Ser Tyr Asp Lys Ala Leu Arg Phe Leu Gly Ser Asn Asp Glu Glu  
 1760 1765  
 Met Ser Tyr Asp Asn Asn Pro Tyr Ile Arg Ala Leu Val Asp Gly  
 1775 1780  
 Cys Ala Thr Lys Lys Gly Tyr Gln Lys Thr Val Leu Glu Ile Asp  
 1790 1795  
 Thr Pro Lys Val Glu Gln Val Pro Ile Val Asp Ile Met Phe Asn  
 1805 1810  
 Asp Phe Gly Glu Ala Ser Gln Lys Phe Gly Phe Glu Val Gly Pro  
 1820 1825  
 Ala Cys Phe Met Gly 1830  
 1835

<210> 267  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens  
 <400> 267

Met Lys Phe Ile Ser Thr Ser Leu Leu Leu Met Leu Leu Val Ser Ser  
 1 5 10 15  
 Leu Ser Pro Val Gln Gly Val Leu Glu Val Tyr Tyr Thr Ser Leu Arg  
 20 25 30  
 Cys Arg Cys Val Gln Glu Ser Ser Val Phe Ile Pro Arg Arg Phe Ile  
 35 40 45  
 Asp Arg Ile Gln Ile Leu Pro Arg Gly Asn Gly Cys Pro Arg Lys Glu  
 50 55 60  
 Ile Ile Val Trp Lys Lys Asn Lys Ser Ile Val Cys Val Asp Pro Gln  
 65 70 75 80  
 Ala Glu Trp Ile Gln Arg Met Met Glu Val Leu Arg Lys Arg Ser Ser  
 85 90 95  
 Ser Thr Leu Pro Val Pro Val Phe Lys Arg Lys Ile Pro  
 100 105

<210> 268  
 <211> 504  
 <212> PRT  
 <213> Homo sapiens  
 <400> 268

Met Phe Pro Arg Glu Lys Thr Trp Asn Ile Ser Phe Ala Gly Cys Gly  
 1 5 10 15  
 Phe Leu Gly Val Tyr Tyr Val Gly Val Ala Ser Cys Leu Arg Glu His  
 20 25 30  
 Ala Pro Phe Leu Val Ala Asn Ala Thr His Ile Tyr Gly Ala Ser Ala  
 35 40 45  
 Gly Ala Leu Thr Ala Thr Ala Leu Val Thr Gly Val Cys Leu Gly Glu  
 50 55 60  
 Ala Gly Ala Lys Phe Ile Glu Val Ser Lys Glu Ala Arg Lys Arg Phe  
 65 70 75 80  
 Leu Gly Pro Leu His Pro Ser Phe Asn Leu Val Lys Ile Ile Arg Ser  
 85 90 95  
 Phe Leu Leu Lys Val Leu Pro Ala Asp Ser His Glu His Ala Ser Gly  
 100 105 110  
 Arg Leu Gly Ile Ser Leu Thr Arg Val Ser Asp Gly Glu Asn Val Ile  
 115 120 125  
 Ile Ser His Phe Asn Ser Lys Asp Glu Leu Ile Gln Ala Asn Val Cys  
 130 135 140  
 Ser Gly Phe Ile Pro Val Tyr Cys Gly Leu Ile Pro Pro Ser Leu Gln  
 145 150 155 160  
 Gly Val Arg Tyr Val Asp Gly Gly Ile Ser Asp Asn Leu Pro Leu Tyr

165 170 175  
 Glu Leu Lys Asn Thr Ile Thr Val Ser Pro Phe Ser Gly Glu Ser Asp  
 180 185 190  
 Ile Cys Pro Gln Asp Ser Ser Thr Asn Ile His Glu Leu Arg Val Thr  
 195 200 205  
 Asn Thr Ser Ile Gln Phe Asn Leu Arg Asn Leu Tyr Arg Leu Ser Lys  
 210 215 220  
 Ala Leu Phe Pro Pro Glu Pro Leu Val Leu Arg Glu Met Cys Lys Gln  
 225 230 235 240  
 Gly Tyr Arg Asp Gly Leu Arg Phe Leu Gln Arg Asn Gly Leu Leu Asn  
 245 250 255  
 Arg Pro Asn Pro Leu Leu Ala Leu Pro Pro Ala Arg Pro His Gly Pro  
 260 265 270  
 Glu Asp Lys Asp Gln Ala Val Glu Ser Ala Gln Ala Glu Asp Tyr Ser  
 275 280 285  
 Gln Leu Pro Gly Glu Asp His Ile Leu Glu His Leu Pro Ala Arg Leu  
 290 295 300  
 Asn Glu Ala Leu Leu Glu Ala Cys Val Glu Pro Thr Asp Leu Leu Thr  
 305 310 315 320  
 Thr Leu Ser Asn Met Leu Pro Val Arg Leu Ala Thr Ala Met Met Val  
 325 330 335  
 Pro Tyr Thr Leu Pro Leu Glu Ser Ala Leu Ser Phe Thr Ile Arg Leu  
 340 345 350  
 Leu Glu Trp Leu Pro Asp Val Pro Glu Asp Ile Arg Trp Met Lys Glu  
 355 360 365  
 Gln Thr Gly Ser Ile Cys Gln Tyr Leu Val Met Arg Ala Lys Arg Lys  
 370 375 380  
 Leu Gly Arg His Leu Pro Ser Arg Leu Pro Glu Gln Val Glu Leu Arg  
 385 390 395 400  
 Arg Val Gln Ser Leu Pro Ser Val Pro Leu Ser Cys Ala Ala Tyr Arg  
 405 410 415  
 Glu Ala Leu Pro Gly Trp Met Arg Asn Asn Leu Ser Leu Gly Asp Ala  
 420 425 430  
 Leu Ala Lys Trp Glu Glu Cys Gln Arg Gln Leu Leu Leu Gly Leu Phe  
 435 440 445  
 Cys Thr Asn Val Ala Phe Pro Pro Glu Ala Leu Arg Met Arg Ala Pro  
 450 455 460  
 Ala Asp Pro Ala Pro Ala Pro Ala Asp Pro Ala Ser Pro Gln His Gln  
 465 470 475 480  
 Pro Ala Gly Pro Ala Pro Leu Leu Ser Thr Pro Ala Pro Glu Ala Arg  
 485 490 495  
 Pro Val Ile Gly Ala Leu Gly Leu  
 500

<210> 269  
 <211> 1498  
 <212> PRT  
 <213> Homo sapiens  
 <400> 269

Met Val Ala Leu Arg Gly Leu Gly Ser Gly Leu Gln Pro Trp Cys Pro  
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 Leu Asp Leu Arg Leu Glu Trp Val Asp Thr Val Trp Glu Leu Asp Phe  
 20 25 30  
 Thr Glu Thr Glu Pro Leu Asp Pro Ser Ile Glu Ala Glu Ile Ile Glu  
 35 40 45  
 Thr Gly Leu Ala Ala Phe Thr Lys Leu Tyr Glu Ser Leu Leu Pro Phe  
 50 55 60  
 Ala Thr Gly Glu His Gly Ser Met Glu Ser Ile Trp Thr Phe Phe Ile  
 65 70 75 80  
 Glu Asn Asn Val Ser His Ser Thr Leu Val Ala Leu Phe Tyr His Phe  
 85 90 95  
 Val Gln Ile Val His Lys Lys Asn Val Ser Val Gln Tyr Arg Glu Tyr  
 100 105 110  
 Gly Leu His Ala Ala Gly Leu Tyr Phe Leu Leu Leu Glu Val Pro Gly  
 115 120 125  
 Ser Val Ala Asn Gln Val Phe His Pro Val Met Phe Asp Lys Cys Ile  
 130 135 140  
 Gln Thr Leu Lys Lys Ser Trp Pro Gln Glu Ser Asn Leu Asn Arg Lys  
 145 150 155 160

Arg Lys Lys Glu Gln Pro Lys Ser Ser Gln Ala Asn Pro Gly Arg His  
 165 170 175  
 Arg Lys Arg Gly Lys Pro Pro Arg Arg Glu Asp Ile Glu Met Asp Glu  
 180 185 190  
 Ile Ile Glu Glu Gln Glu Asp Glu Asn Ile Cys Phe Ser Ala Arg Asp  
 195 200 205  
 Leu Ser Gln Ile Arg Asn Ala Ile Phe His Leu Leu Lys Asn Phe Leu  
 210 215 220  
 Arg Leu Leu Pro Lys Phe Ser Leu Lys Glu Lys Pro Gln Cys Val Gln  
 225 230 235 240  
 Asn Cys Ile Glu Val Phe Val Ser Leu Thr Asn Phe Glu Pro Val Leu  
 245 250 255  
 His Glu Cys His Val Thr Gln Ala Arg Ala Leu Asn Gln Ala Lys Tyr  
 260 265 270  
 Ile Pro Glu Leu Ala Tyr Tyr Gly Leu Tyr Leu Leu Cys Ser Pro Ile  
 275 280 285  
 His Gly Glu Gly Asp Lys Val Ile Ser Cys Val Phe His Gln Met Leu  
 290 295 300  
 Ser Val Ile Leu Met Leu Glu Val Gly Glu Gly Ser His Arg Ala Pro  
 305 310 315 320  
 Leu Ala Val Thr Ser Gln Val Ile Asn Cys Arg Asn Gln Ala Val Gln  
 325 330 335  
 Phe Ile Ser Ala Leu Val Asp Glu Leu Lys Glu Ser Ile Phe Pro Val  
 340 345 350  
 Val Arg Ile Leu Leu Gln His Ile Cys Ala Lys Val Val Asp Lys Ser  
 355 360 365  
 Glu Tyr Arg Thr Phe Ala Ala Gln Ser Leu Val Gln Leu Leu Ser Lys  
 370 375 380  
 Leu Pro Cys Gly Glu Tyr Ala Met Phe Ile Ala Trp Leu Tyr Lys Tyr  
 385 390 395 400  
 Ser Arg Ser Ser Lys Ile Pro His Arg Val Phe Thr Leu Asp Val Val  
 405 410 415  
 Leu Ala Leu Leu Glu Leu Pro Glu Arg Glu Val Asp Asn Thr Leu Ser  
 420 425 430  
 Leu Glu His Gln Lys Phe Leu Lys His Lys Phe Leu Val Gln Glu Ile  
 435 440 445  
 Met Phe Asp Arg Cys Leu Asp Lys Ala Pro Thr Val Arg Ser Lys Ala  
 450 455 460  
 Leu Ser Ser Phe Ala His Cys Leu Glu Leu Thr Val Thr Ser Ala Ser  
 465 470 475 480  
 Glu Ser Ile Leu Glu Leu Leu Ile Asn Ser Pro Thr Phe Ser Val Ile  
 485 490 495  
 Glu Ser His Pro Gly Thr Leu Leu Arg Asn Ser Ser Ala Phe Ser Tyr  
 500 505 510  
 Gln Arg Gln Thr Ser Asn Arg Ser Glu Pro Ser Gly Glu Ile Asn Ile  
 515 520 525  
 Asp Ser Ser Gly Glu Thr Val Gly Ser Gly Glu Arg Cys Val Met Ala  
 530 535 540  
 Met Leu Arg Arg Arg Ile Arg Asp Glu Lys Thr Asn Val Arg Lys Ser  
 545 550 555 560  
 Ala Leu Gln Val Leu Val Ser Ile Leu Lys His Cys Asp Val Ser Gly  
 565 570 575  
 Met Lys Glu Asp Leu Trp Ile Leu Gln Asp Gln Cys Arg Asp Pro Ala  
 580 585 590  
 Val Ser Val Arg Lys Gln Ala Leu Gln Ser Leu Thr Glu Leu Leu Met  
 595 600 605  
 Ala Gln Pro Arg Cys Val Gln Ile Gln Lys Ala Trp Leu Arg Gly Val  
 610 615 620  
 Val Pro Val Val Met Asp Cys Glu Ser Thr Val Gln Glu Lys Ala Leu  
 625 630 635 640  
 Glu Phe Leu Asp Gln Leu Leu Leu Gln Asn Ile Arg His His Ser His  
 645 650 655  
 Phe His Ser Gly Asp Asp Ser Gln Val Leu Ala Trp Ala Leu Leu Thr  
 660 665 670  
 Leu Leu Thr Thr Glu Ser Gln Glu Leu Ser Arg Tyr Leu Asn Lys Ala  
 675 680 685  
 Phe His Ile Trp Ser Lys Lys Glu Lys Phe Ser Pro Thr Phe Ile Asn  
 690 695 700  
 Asn Val Ile Ser His Thr Gly Thr Glu His Ser Ala Pro Ala Trp Met

705					710					715				720	
Leu	Leu	Ser	Lys	Ile	Ala	Gly	Ser	Ser	Pro	Arg	Leu	Asp	Tyr	Ser	Arg
				725					730					735	
Ile	Ile	Gln	Ser	Trp	Glu	Lys	Ile	Ser	Ser	Gln	Gln	Asn	Pro	Asn	Ser
			740					745					750		
Asn	Thr	Leu	Gly	His	Ile	Leu	Cys	Val	Ile	Gly	His	Ile	Ala	Lys	His
		755					760					765			
Leu	Pro	Lys	Ser	Thr	Arg	Asp	Lys	Val	Thr	Asp	Ala	Val	Lys	Cys	Lys
	770					775					780				
Leu	Asn	Gly	Phe	Gln	Trp	Ser	Leu	Glu	Val	Ile	Ser	Ser	Ala	Val	Asp
785					790					795					800
Ala	Leu	Gln	Arg	Leu	Cys	Arg	Ala	Ser	Ala	Glu	Thr	Pro	Ala	Glu	Glu
				805					810						815
Gln	Glu	Leu	Leu	Thr	Gln	Val	Cys	Gly	Asp	Val	Leu	Ser	Thr	Cys	Glu
			820					825					830		
His	Arg	Leu	Ser	Asn	Ile	Val	Leu	Lys	Glu	Asn	Gly	Thr	Gly	Asn	Met
		835					840					845			
Asp	Glu	Asp	Leu	Leu	Val	Lys	Tyr	Ile	Phe	Thr	Leu	Gly	Asp	Ile	Ala
	850					855					860				
Gln	Leu	Cys	Pro	Ala	Arg	Val	Glu	Lys	Arg	Ile	Phe	Leu	Leu	Ile	Gln
865					870					875					880
Ser	Val	Leu	Ala	Ser	Ser	Ala	Asp	Ala	Asp	His	Ser	Pro	Ser	Ser	Gln
				885					890						895
Gly	Ser	Ser	Glu	Ala	Pro	Ala	Ser	Gln	Pro	Pro	Pro	Gln	Val	Arg	Gly
			900					905					910		
Ser	Val	Met	Pro	Ser	Val	Ile	Arg	Ala	His	Ala	Ile	Ile	Thr	Leu	Gly
		915					920					925			
Lys	Leu	Cys	Leu	Gln	His	Glu	Asp	Leu	Ala	Lys	Lys	Ser	Ile	Pro	Ala
	930					935					940				
Leu	Val	Arg	Glu	Leu	Glu	Val	Cys	Glu	Asp	Val	Ala	Val	Arg	Asn	Asn
945					950					955					960
Val	Ile	Ile	Val	Met	Cys	Asp	Leu	Cys	Ile	Arg	Tyr	Thr	Ile	Met	Val
				965					970					975	
Asp	Lys	Tyr	Ile	Pro	Asn	Ile	Ser	Met	Cys	Leu	Lys	Asp	Ser	Asp	Pro
		980						985					990		
Phe	Ile	Arg	Lys	Gln	Thr	Leu	Ile	Leu	Leu	Thr	Asn	Leu	Leu	Gln	Glu
		995					1000					1005			
Glu	Phe	Val	Lys	Trp	Lys	Gly	Ser	Leu	Phe	Phe	Arg	Phe	Val	Ser	
	1010					1015					1020				
Thr	Leu	Ile	Asp	Ser	His	Pro	Asp	Ile	Ala	Ser	Phe	Gly	Glu	Phe	
	1025					1030					1035				
Cys	Leu	Ala	His	Leu	Leu	Leu	Lys	Arg	Asn	Pro	Val	Met	Phe	Phe	
	1040					1045					1050				
Gln	His	Phe	Ile	Glu	Cys	Ile	Phe	His	Phe	Asn	Asn	Tyr	Glu	Lys	
	1055					1060					1065				
His	Glu	Lys	Tyr	Asn	Lys	Phe	Pro	Gln	Ser	Glu	Arg	Glu	Lys	Arg	
	1070					1075					1080				
Leu	Phe	Ser	Leu	Lys	Gly	Lys	Ser	Asn	Lys	Glu	Arg	Arg	Met	Lys	
	1085					1090					1095				
Ile	Tyr	Lys	Phe	Leu	Leu	Glu	His	Phe	Thr	Asp	Glu	Gln	Arg	Phe	
	1100					1105					1110				
Asn	Ile	Thr	Ser	Lys	Ile	Cys	Leu	Ser	Ile	Leu	Ala	Cys	Phe	Ala	
	1115					1120					1125				
Asp	Gly	Ile	Leu	Pro	Leu	Asp	Leu	Asp	Ala	Ser	Glu	Leu	Leu	Ser	
	1130					1135					1140				
Asp	Thr	Phe	Glu	Val	Leu	Ser	Ser	Lys	Glu	Ile	Lys	Leu	Leu	Ala	
	1145					1150					1155				
Met	Arg	Ser	Lys	Pro	Asp	Lys	Asp	Leu	Leu	Met	Glu	Glu	Asp	Asp	
	1160					1165					1170				
Met	Ala	Leu	Ala	Asn	Val	Val	Met	Gln	Glu	Ala	Gln	Lys	Lys	Leu	
	1175					1180					1185				
Ile	Ser	Gln	Val	Gln	Lys	Arg	Asn	Phe	Ile	Glu	Asn	Ile	Ile	Pro	
	1190					1195					1200				
Ile	Ile	Ile	Ser	Leu	Lys	Thr	Val	Leu	Glu	Lys	Asn	Lys	Ile	Pro	
	1205					1210					1215				
Ala	Leu	Arg	Glu	Leu	Met	His	Tyr	Leu	Arg	Glu	Val	Met	Gln	Asp	
	1220					1225					1230				
Tyr	Arg	Asp	Glu	Leu	Lys	Asp	Phe	Phe	Ala	Val	Asp	Lys	Gln	Leu	
	1235					1240					1245				

Ala Ser Glu Leu Glu Tyr Asp Met Lys Lys Tyr Gln Glu Gln Leu  
 1250 1255 1260  
 Val Gln Glu Gln Glu Leu Ala Lys His Ala Asp Val Ala Gly Thr  
 1265 1270 1275  
 Ala Gly Gly Ala Glu Val Ala Pro Val Ala Gln Val Ala Leu Cys  
 1280 1285 1290  
 Leu Glu Thr Val Pro Val Pro Ala Gly Gln Glu Asn Pro Ala Met  
 1295 1300 1305  
 Ser Pro Ala Val Ser Gln Pro Cys Thr Pro Arg Ala Ser Ala Gly  
 1310 1315 1320  
 His Val Ala Val Ser Ser Pro Thr Pro Glu Thr Gly Pro Leu Gln  
 1325 1330 1335  
 Arg Leu Leu Pro Lys Ala Arg Pro Met Ser Leu Ser Thr Ile Ala  
 1340 1345 1350  
 Ile Leu Asn Ser Val Lys Lys Ala Val Glu Ser Lys Ser Arg His  
 1355 1360 1365  
 Arg Ser Arg Ser Leu Gly Val Leu Pro Phe Thr Leu Asn Ser Gly  
 1370 1375 1380  
 Ser Pro Glu Lys Thr Cys Ser Gln Val Ser Ser Tyr Ser Leu Glu  
 1385 1390 1395  
 Gln Glu Ser Asn Gly Glu Ile Glu His Val Thr Lys Arg Ala Ile  
 1400 1405 1410  
 Ser Thr Pro Glu Lys Ser Ile Ser Asp Val Thr Phe Gly Ala Gly  
 1415 1420 1425  
 Val Ser Tyr Ile Gly Thr Pro Arg Thr Pro Ser Ser Ala Lys Glu  
 1430 1435 1440  
 Lys Ile Glu Gly Arg Ser Gln Gly Asn Asp Ile Leu Cys Leu Ser  
 1445 1450 1455  
 Leu Pro Asp Lys Pro Pro Pro Gln Pro Gln Gln Trp Asn Val Arg  
 1460 1465 1470  
 Ser Pro Ala Arg Asn Lys Asp Thr Pro Ala Cys Ser Arg Arg Ser  
 1475 1480 1485  
 Leu Arg Lys Thr Pro Leu Lys Thr Ala Asn  
 1490 1495

&lt;210&gt; 270

&lt;211&gt; 551

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 270

Met Pro Thr Pro Gly Ala Ala Ser Leu Leu Ser Ala Val Gln Ala Gln  
 1 5 10 15  
 Glu Arg Arg Leu Tyr Val Pro Leu Pro Gly Gly Phe Ser Val Pro Pro  
 20 25 30  
 Val Thr Pro Met Pro His Cys Leu Leu Asp Pro Lys Glu Asp Leu Lys  
 35 40 45  
 Gly Cys Pro Gln Ala Cys Ser Gly Cys Ser Met Gly Thr Pro Ala Pro  
 50 55 60  
 Ser Tyr Leu Val Gln Gly Ala Gln Gly Met Pro Leu Arg Lys Ala Ala  
 65 70 75 80  
 Ser Leu Ala Thr Lys Leu Glu Glu Met Gly Leu Phe Gly Gln Gln Cys  
 85 90 95  
 Leu Pro Ala Met Gly Tyr Thr Cys Arg Cys Arg Glu Pro Leu Leu Leu  
 100 105 110  
 Pro Ser His Leu Ile Gly Val Gly Phe Pro Gln Ala Pro Ala Pro Gln  
 115 120 125  
 Leu Leu Ser Ala Leu Leu Leu Pro Ala Pro Pro Ser Pro Ala Gln  
 130 135 140  
 Ser Glu Val His Pro Pro Val Arg Gly Ala Glu Gln Cys Cys Lys Leu  
 145 150 155 160  
 Ser Ala Pro Glu Tyr Pro Gly Asp Leu Leu Asn Cys Thr Phe Ser Phe  
 165 170 175  
 Cys Lys Pro Glu Leu Ser Leu Cys Thr Ser Asn Leu Leu Pro Gly Asn  
 180 185 190  
 Ala Ala Val Thr Glu Gln Ser Gly Lys Val Leu Asp Asn Thr Leu Gly  
 195 200 205  
 Gly Asn Phe Ser Leu Lys Cys Ile Gly Ala Glu Thr Arg Thr Pro Cys  
 210 215 220  
 Gln Ala Ala Leu Trp Val Phe Glu Ala Lys Val Ser Arg Leu Met Lys

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<210> 271
<211> 2779
<212> PRT
<213> Homo sapiens
<400> 271
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Met 1	Gln	Gly	Asp	Leu 5	Lys	Thr	Thr	Asp	Ile 10	Ser	Ile	Glu	Pro	Pro 15	Ser
Ala	Gln	Leu	Glu 20	Val	Gln	Ala	Gly	Gln	Val	Asp	Leu	Lys	Leu 30	Pro	Glu
Gly	His 35	Val	Pro	Glu	Gly	Ala	Gly 40	Leu	Lys	Gly	His	Leu 45	Pro	Lys	Leu
Gln	Met 50	Pro	Ser	Phe	Lys	Met 55	Pro	Lys	Val	Asp	Arg	Lys	Gly	Pro	Gln
Ile 65	Asp	Val	Lys	Gly	Pro 70	Lys	Leu	Asp	Leu	Lys 75	Gly	Pro	Lys	Thr	Asp
Val	Thr	Ala	Pro	Asp 85	Val	Glu	Val	Ser	Gln 90	Pro	Gly	Met	Glu	Val 95	Asp
Val	Glu	Ala	Pro 100	Gly	Ala	Lys	Leu	Asp 105	Gly	Ala	Arg	Leu	Glu	Gly	Asp
Leu	Ser	Leu 115	Ala	Asp	Lys	Asp	Val 120	Thr	Ala	Lys	Asp	Ser 125	Lys	Phe	Lys
Met	Pro 130	Lys	Phe	Lys	Met	Pro 135	Ser	Phe	Gly	Val	Ser 140	Ala	Pro	Gly	Lys
Ser 145	Ile	Glu	Val	Leu	Val 150	Asp	Val	Ser	Ala	Pro 155	Lys	Val	Glu	Ala	Asp
Leu	Ser	Leu	Pro	Ser 165	Met	Gln	Gly	Asp	Leu 170	Lys	Asn	Thr	Asp	Ile 175	Ser



Ile Glu Pro Pro Ser Ala Gln Leu Glu Val Gln Ala Gly Gln Val Asp  
 180 185 190  
 Val Lys Leu Pro Glu Gly His Val Leu Glu Gly Ala Gly Leu Lys Gly  
 195 200 205  
 His Leu Pro Lys Leu Gln Met Pro Ser Phe Lys Met Pro Lys Val Asp  
 210 215 220  
 Arg Lys Gly Pro Gln Ile Asp Ile Lys Gly Pro Lys Leu Asp Leu Lys  
 225 230 235 240  
 Gly Pro Lys Met Asp Val Thr Ala Pro Asp Val Glu Val Ser Gln Pro  
 245 250 255  
 Ser Met Glu Val Asp Val Glu Ala Pro Gly Ala Lys Leu Asp Gly Ala  
 260 265 270  
 Arg Leu Glu Gly Asp Leu Ser Leu Ala Asp Lys Asp Val Thr Ala Lys  
 275 280 285  
 Asp Ser Lys Phe Lys Met Pro Lys Phe Lys Met Pro Ser Tyr Arg Ala  
 290 295 300 320  
 Ser Ala Pro Gly Lys Ser Ile Gln Ala Ser Val Asp Val Ser Ala Pro  
 305 310 315 320  
 Lys Ala Glu Ala Asp Val Ser Leu Pro Ser Met Gln Gly Asp Leu Lys  
 325 330 335  
 Thr Thr Asp Leu Ser Ile Gln Leu Pro Ser Val Asp Leu Glu Val Gln  
 340 345 350  
 Ala Gly Gln Val Asp Val Lys Leu Pro Glu Gly His Val Pro Glu Gly  
 355 360 365  
 Ala Gly Leu Lys Gly His Leu Pro Lys Val Glu Met Pro Ser Phe Lys  
 370 375 380  
 Met Pro Lys Val Asp Leu Lys Ser Pro Gln Val Asp Ile Lys Gly Pro  
 385 390 395 400  
 Lys Leu Asp Leu Lys Val Pro Lys Ala Glu Val Thr Val Pro Asp Val  
 405 410 415  
 Glu Val Ser Leu Pro Ser Val Glu Val Asp Val Gln Ala Pro Arg Ala  
 420 425 430  
 Lys Leu Asp Gly Ala Arg Leu Glu Gly Asp Leu Ser Leu Ala Glu Lys  
 435 440 445  
 Asp Val Thr Ala Lys Asp Ser Lys Phe Lys Met Pro Lys Phe Lys Met  
 450 455 460  
 Pro Ser Phe Gly Val Ser Ala Pro Gly Arg Ser Ile Glu Ala Ser Leu  
 465 470 475 480  
 Asp Val Ser Ala Pro Lys Val Glu Ala Asp Val Ser Leu Ser Ser Met  
 485 490 495  
 Gln Gly Asp Leu Lys Ala Thr Asp Leu Ser Ile Gln Pro Pro Ser Ala  
 500 505 510  
 Asp Leu Glu Val Gln Ala Val Gln Val Asp Val Glu Leu Leu Glu Gly  
 515 520 525  
 Pro Val Pro Glu Gly Ala Gly Leu Lys Gly His Leu Pro Lys Val Glu  
 530 535 540  
 Met Pro Ser Leu Lys Thr Pro Lys Val Asp Leu Lys Gly Pro Gln Ile  
 545 550 555 560  
 Asp Val Lys Gly Pro Lys Leu Asp Leu Lys Gly Pro Lys Ala Glu Val  
 565 570 575  
 Arg Val Pro Asp Val Glu Val Ser Leu Pro Ser Val Glu Val Asp Val  
 580 585 590  
 Gln Ala Pro Lys Ala Lys Leu Asp Ala Gly Arg Leu Glu Gly Asp Leu  
 595 600 605  
 Ser Leu Ala Asp Lys Asp Val Thr Ala Lys Asp Ser Lys Phe Lys Met  
 610 615 620  
 Pro Lys Phe Lys Met Pro Ser Phe Arg Val Ser Ala Pro Gly Lys Ser  
 625 630 635 640  
 Met Glu Ala Ser Val Asp Val Ser Ala Pro Lys Val Glu Ala Asp Val  
 645 650 655  
 Ser Leu Pro Ser Met Gln Gly Asp Leu Lys Thr Thr Asp Leu Ser Ile  
 660 665 670  
 Gln Pro Pro Ser Ala Asp Leu Lys Val Gln Ala Gly Gln Met Asp Val  
 675 680 685  
 Lys Leu Pro Glu Gly Gln Val Pro Glu Gly Ala Gly Leu Lys Glu His  
 690 695 700  
 Leu Pro Lys Val Glu Met Pro Ser Leu Lys Met Pro Lys Val Asp Leu  
 705 710 715 720  
 Lys Gly Pro Gln Val Asp Ile Lys Gly Pro Lys Leu Asp Leu Lys Val

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Leu	Glu	Gly	Asp	Leu	Ser	Leu	Ala	Asp	Lys	Asp	Met	Thr	Ala	Lys
1265						1270					1275			
Asp	Ser	Lys	Phe	Lys	Met	Pro	Lys	Phe	Lys	Met	Pro	Ser	Phe	Gly
1280						1285					1290			
Val	Ser	Ala	Pro	Gly	Lys	Ser	Ile	Glu	Ala	Ser	Leu	Asp	Val	Ser
1295						1300					1305			
Ala	Leu	Lys	Val	Glu	Ala	Asp	Val	Ser	Leu	Pro	Ser	Met	Gln	Gly
1310						1315					1320			
Asp	Leu	Lys	Thr	Thr	His	Leu	Ser	Ile	Gln	Pro	Pro	Ser	Ala	Asp
1325						1330					1335			
Leu	Glu	Val	Gln	Ala	Gly	Gln	Glu	Asp	Val	Lys	Leu	Pro	Glu	Gly
1340						1345					1350			
Pro	Val	His	Glu	Gly	Ala	Gly	Leu	Lys	Gly	His	Leu	Pro	Lys	Leu
1355						1360					1365			
Gln	Met	Pro	Ser	Phe	Lys	Val	Pro	Lys	Val	Asp	Leu	Lys	Gly	Pro
1370						1375					1380			
Gln	Ile	Asp	Val	Asn	Val	Pro	Lys	Leu	Asp	Leu	Lys	Gly	Pro	Lys
1385						1390					1395			
Val	Glu	Val	Thr	Ser	Pro	Asn	Leu	Asp	Val	Ser	Leu	Pro	Ser	Met
1400						1405					1410			
Glu	Val	Asp	Ile	Gln	Ala	Pro	Gly	Ala	Lys	Leu	Asp	Ser	Thr	Arg
1415						1420					1425			
Leu	Glu	Gly	Asp	Leu	Ser	Leu	Ala	Asp	Lys	Asp	Val	Thr	Ala	Lys
1430						1435					1440			
Asp	Ser	Lys	Phe	Lys	Met	Pro	Lys	Phe	Lys	Met	Pro	Ser	Phe	Gly
1445						1450					1455			
Met	Leu	Ser	Pro	Gly	Lys	Ser	Ile	Glu	Val	Ser	Val	Asp	Val	Ser
1460						1465					1470			
Ala	Pro	Lys	Met	Glu	Ala	Asp	Met	Ser	Ile	Pro	Ser	Met	Gln	Gly
1475						1480					1485			
Asp	Leu	Lys	Thr	Thr	Asp	Leu	Arg	Ile	Gln	Ala	Pro	Ser	Ala	Asp
1490						1495					1500			
Leu	Glu	Val	Gln	Ala	Gly	Gln	Val	Asp	Leu	Lys	Leu	Pro	Glu	Gly
1505						1510					1515			
His	Met	Pro	Glu	Val	Ala	Gly	Leu	Lys	Gly	His	Leu	Pro	Lys	Val
1520						1525					1530			
Glu	Met	Pro	Ser	Phe	Lys	Met	Pro	Lys	Val	Asp	Leu	Lys	Gly	Pro
1535						1540					1545			
Gln	Val	Asp	Val	Lys	Gly	Pro	Lys	Leu	Asp	Leu	Lys	Gly	Pro	Lys
1550						1555					1560			
Ala	Glu	Val	Met	Ala	Pro	Asp	Val	Glu	Val	Ser	Leu	Pro	Ser	Val
1565						1570					1575			
Glu	Thr	Asp	Val	Gln	Ala	Pro	Gly	Ser	Met	Leu	Asp	Gly	Ala	Arg
1580						1585					1590			
Leu	Glu	Gly	Asp	Leu	Ser	Leu	Ala	His	Glu	Asp	Val	Ala	Gly	Lys
1595						1600					1605			
Asp	Ser	Lys	Phe	Gln	Gly	Pro	Lys	Leu	Ser	Thr	Ser	Gly	Phe	Glu
1610						1615					1620			
Trp	Ser	Ser	Lys	Lys	Val	Ser	Met	Ser	Ser	Ser	Glu	Ile	Glu	Gly
1625						1630					1635			
Asn	Val	Thr	Phe	His	Glu	Lys	Thr	Ser	Thr	Phe	Pro	Ile	Val	Glu
1640						1645					1650			
Ser	Val	Val	His	Glu	Gly	Asp	Leu	His	Asp	Pro	Ser	Arg	Asp	Gly
1655						1660					1665			
Asn	Leu	Gly	Leu	Ala	Val	Gly	Glu	Val	Gly	Met	Asp	Ser	Lys	Phe
1670						1675					1680			
Lys	Lys	Leu	His	Phe	Lys	Val	Pro	Lys	Val	Ser	Phe	Ser	Ser	Thr
1685						1690					1695			
Lys	Thr	Pro	Lys	Asp	Ser	Leu	Val	Pro	Gly	Ala	Lys	Ser	Ser	Ile
1700						1705					1710			
Gly	Leu	Ser	Thr	Ile	Pro	Leu	Ser	Ser	Ser	Glu	Cys	Ser	Ser	Phe
1715						1720					1725			
Glu	Leu	Gln	Gln	Val	Ser	Ala	Cys	Ser	Glu	Pro	Ser	Met	Gln	Met
1730						1735					1740			
Pro	Lys	Val	Gly	Phe	Ala	Gly	Phe	Pro	Ser	Ser	Arg	Leu	Asp	Leu
1745						1750					1755			
Thr	Gly	Pro	His	Phe	Glu	Ser	Ser	Ile	Leu	Ser	Pro	Cys	Glu	Asp
1760						1765					1770			
Val	Thr	Leu	Thr	Lys	Tyr	Gln	Val	Thr	Val	Pro	Arg	Ala	Ala	Leu

1775	Ala Pro Glu Leu Ala Leu	1780	Glu Ile Pro Ser Gly	1785	Ser Gln Ala Asp
1790	Ile Pro Leu Pro Lys Thr	1795	Glu Cys Ser Thr Asp	1800	Leu Gln Pro Pro
1805	Glu Gly Val Pro Thr Ser	1810	Gln Ala Glu Ser His	1815	Ser Gly Pro Leu
1820	Asn Ser Met Ile Pro Val	1825	Ser Leu Gly Gln Val	1830	Ser Phe Pro Lys
1835	Phe Tyr Lys Pro Lys Phe	1840	Val Phe Ser Val Pro	1845	Gln Met Ala Val
1850	Pro Glu Gly Asp Leu His	1855	Ala Val Gly Ala	1860	Pro Val Met Ser
1865	Pro Leu Ser Pro Gly Glu	1870	Arg Val Gln Cys Pro	1875	Leu Pro Ser Thr
1880	Gln Leu Pro Ser Pro Gly	1885	Thr Cys Val Ser Gln	1890	Gly Pro Glu Glu
1895	Leu Val Ala Ser Leu Gln	1900	Thr Ser Val Val Ala	1905	Pro Gly Glu Ala
1910	Pro Ser Glu Asp Ala Asp	1915	His Glu Gly Lys Gly	1920	Ser Pro Leu Lys
1925	Met Pro Lys Ile Lys Leu	1930	Pro Ser Phe Arg Trp	1935	Ser Pro Lys Lys
1940	Glu Thr Gly Pro Lys Val	1945	Asp Pro Glu Cys Ser	1950	Val Glu Asp Ser
1955	Lys Leu Ser Leu Val Leu	1960	Asp Lys Asp Glu Val	1965	Ala Pro Gln Ser
1970	Ala Ile His Met Asp Leu	1975	Pro Pro Glu Arg Asp	1980	Gly Glu Lys Gly
1985	Arg Ser Thr Lys Pro Gly	1990	Phe Ala Met Pro Lys	1995	Leu Ala Leu Pro
2000	Lys Met Lys Ala Ser Lys	2005	Ser Gly Val Ser Leu	2010	Pro Gln Arg Asp
2015	Val Asp Pro Ser Leu Ser	2020	Ser Ala Thr Ala Gly	2025	Gly Ser Phe Gln
2030	Asp Thr Glu Lys Ala Ser	2035	Ser Asp Gly Gly Arg	2040	Gly Gly Leu Gly
2045	Ala Thr Ala Ser Ala Thr	2050	Gly Ser Glu Gly Val	2055	Asn Leu His Arg
2060	Pro Gln Val His Ile Pro	2065	Ser Leu Gly Phe Ala	2070	Lys Pro Asp Leu
2075	Arg Ser Ser Lys Ala Lys	2080	Val Glu Val Ser Gln	2085	Pro Glu Ala Asp
2090	Leu Pro Leu Pro Lys His	2095	Asp Leu Ser Thr Glu	2100	Gly Asp Ser Arg
2105	Gly Cys Gly Leu Gly Asp	2110	Val Pro Val Ser Gln	2115	Pro Cys Gly Glu
2120	Gly Ile Ala Pro Thr Pro	2125	Glu Asp Pro Leu Gln	2130	Pro Ser Cys Arg
2135	Lys Pro Asp Ala Glu Val	2140	Leu Thr Val Glu Ser	2145	Pro Glu Glu Glu
2150	Ala Met Thr Lys Tyr Ser	2155	Gln Glu Ser Trp Phe	2160	Lys Met Pro Lys
2165	Phe Arg Met Pro Ser Leu	2170	Arg Arg Ser Phe Arg	2175	Asp Arg Gly Gly
2180	Ala Gly Lys Leu Glu Val	2185	Ala Gln Thr Gln Ala	2190	Pro Ala Ala Thr
2195	Gly Gly Glu Ala Ala Ala	2200	Lys Val Lys Glu Phe	2205	Leu Val Ser Gly
2210	Ser Asn Val Glu Ala Ala	2215	Met Ser Leu Gln Leu	2220	Pro Glu Ala Asp
2225	Ala Glu Val Thr Ala Ser	2230	Glu Ser Lys Ser Ser	2235	Thr Asp Ile Leu
2240	Arg Cys Asp Leu Asp Ser	2245	Thr Gly Leu Lys Leu	2250	His Leu Ser Thr
2255	Ala Gly Met Thr Gly Asp	2260	Glu Leu Ser Thr Ser	2265	Glu Val Arg Ile
2270	His Pro Ser Lys Gly Pro	2275	Leu Pro Phe Gln Met	2280	Pro Gly Met Arg
2285		2290		2295	

Leu	Pro	Glu	Thr	Gln	Val	Leu	Pro	Gly	Glu	Ile	Asp	Glu	Thr	Pro
2300						2305					2310			
Leu	Ser	Lys	Pro	Gly	His	Asp	Leu	Ala	Ser	Met	Glu	Asp	Lys	Thr
2315						2320					2325			
Glu	Lys	Trp	Ser	Ser	Gln	Pro	Glu	Gly	Pro	Leu	Lys	Leu	Lys	Ala
2330						2335					2340			
Ser	Ser	Thr	Asp	Met	Pro	Ser	Gln	Ile	Ser	Val	Val	Asn	Val	Asp
2345						2350					2355			
Gln	Leu	Trp	Glu	Asp	Ser	Val	Leu	Thr	Val	Lys	Phe	Pro	Lys	Leu
2360						2365					2370			
Met	Val	Pro	Arg	Phe	Ser	Phe	Pro	Ala	Pro	Ser	Ser	Glu	Asp	Asp
2375						2380					2385			
Val	Phe	Ile	Pro	Thr	Val	Arg	Glu	Val	Gln	Cys	Pro	Glu	Ala	Asn
2390						2395					2400			
Ile	Asp	Thr	Ala	Leu	Cys	Lys	Glu	Ser	Pro	Gly	Leu	Trp	Gly	Ala
2405						2410					2415			
Ser	Ile	Leu	Lys	Ala	Gly	Ala	Gly	Val	Pro	Gly	Glu	Gln	Pro	Val
2420						2425					2430			
Asp	Leu	Asn	Leu	Pro	Leu	Glu	Ala	Pro	Pro	Ile	Ser	Lys	Val	Arg
2435						2440					2445			
Val	His	Ile	Gln	Gly	Ala	Gln	Val	Glu	Ser	Gln	Glu	Val	Thr	Ile
2450						2455					2460			
His	Ser	Ile	Val	Thr	Pro	Glu	Phe	Val	Asp	Leu	Ser	Val	Pro	Arg
2465						2470					2475			
Thr	Phe	Ser	Thr	Gln	Ile	Val	Arg	Glu	Ser	Glu	Ile	Pro	Thr	Ser
2480						2485					2490			
Glu	Ile	Gln	Thr	Pro	Ser	Tyr	Gly	Phe	Ser	Leu	Leu	Lys	Val	Lys
2495						2500					2505			
Ile	Pro	Glu	Pro	His	Thr	Gln	Ala	Arg	Val	Tyr	Thr	Thr	Met	Thr
2510						2515					2520			
Gln	His	Ser	Arg	Thr	Gln	Glu	Gly	Thr	Glu	Glu	Ala	Pro	Ile	Gln
2525						2530					2535			
Ala	Thr	Pro	Gly	Val	Asp	Ser	Ile	Ser	Gly	Asp	Leu	Gln	Pro	Asp
2540						2545					2550			
Thr	Gly	Glu	Pro	Phe	Glu	Met	Ile	Ser	Ser	Ser	Val	Asn	Val	Leu
2555						2560					2565			
Gly	Gln	Gln	Thr	Leu	Thr	Phe	Glu	Val	Pro	Ser	Gly	His	Gln	Leu
2570						2575					2580			
Ala	Asp	Ser	Cys	Ser	Asp	Glu	Glu	Pro	Ala	Glu	Ile	Leu	Glu	Phe
2585						2590					2595			
Pro	Pro	Asp	Asp	Ser	Gln	Glu	Ala	Thr	Thr	Pro	Leu	Ala	Asp	Glu
2600						2605					2610			
Gly	Arg	Ala	Pro	Lys	Asp	Lys	Pro	Glu	Ser	Lys	Lys	Ser	Gly	Leu
2615						2620					2625			
Leu	Trp	Phe	Trp	Leu	Pro	Asn	Ile	Gly	Phe	Ser	Ser	Ser	Val	Asp
2630						2635					2640			
Glu	Thr	Gly	Val	Asp	Ser	Lys	Asn	Asp	Val	Gln	Arg	Ser	Ala	Pro
2645						2650					2655			
Ile	Gln	Thr	Gln	Pro	Glu	Ala	Arg	Pro	Glu	Ala	Glu	Leu	Pro	Lys
2660						2665					2670			
Lys	Gln	Glu	Lys	Ala	Gly	Trp	Phe	Arg	Phe	Pro	Lys	Leu	Gly	Phe
2675						2680					2685			
Ser	Ser	Ser	Pro	Thr	Lys	Lys	Ser	Lys	Ser	Thr	Glu	Asp	Gly	Ala
2690						2695					2700			
Glu	Leu	Glu	Glu	Gln	Lys	Leu	Gln	Glu	Glu	Thr	Ile	Thr	Phe	Phe
2705						2710					2715			
Asp	Ala	Arg	Glu	Ser	Phe	Ser	Pro	Glu	Glu	Lys	Glu	Glu	Gly	Glu
2720						2725					2730			
Leu	Ile	Gly	Pro	Val	Gly	Thr	Gly	Leu	Asp	Ser	Arg	Val	Met	Val
2735						2740					2745			
Thr	Ser	Ala	Ala	Arg	Thr	Glu	Leu	Ile	Leu	Pro	Glu	Gln	Asp	Arg
2750						2755					2760			
Lys	Ala	Asp	Asp	Glu	Ser	Lys	Gly	Ser	Gly	Leu	Gly	Pro	Asn	Glu
2765						2770					2775			
Gly														

&lt;210&gt; 272

&lt;211&gt; 512

<212> PRT  
 <213> Homo sapiens  
 <400> 272

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Met Asp Phe Glu Ser Gly Gln Val Asp Pro Leu Ala Ser Val Ile Leu
1      5      10      15
Pro Pro Asn Leu Leu Glu Asn Leu Ser Pro Glu Asp Ser Val Leu Val
20      25      30
Arg Arg Ala Gln Phe Thr Phe Phe Asn Lys Thr Gly Leu Phe Gln Asp
35      40      45
Val Gly Pro Gln Arg Lys Thr Leu Val Ser Tyr Val Met Ala Cys Ser
50      55      60
Ile Gly Asn Ile Thr Ile Gln Asn Leu Lys Asp Pro Val Gln Ile Lys
65      70      75      80
Ile Lys His Thr Arg Thr Gln Glu Val His His Pro Ile Cys Ala Phe
85      90      95
Trp Asp Leu Asn Lys Asn Lys Ser Phe Gly Gly Trp Asn Thr Ser Gly
100     105     110
Cys Val Ala His Arg Asp Ser Asp Ala Ser Glu Thr Val Cys Leu Cys
115     120     125
Asn His Phe Thr His Phe Gly Val Leu Met Asp Leu Pro Arg Ser Ala
130     135     140
Ser Gln Leu Asp Ala Arg Asn Thr Lys Val Leu Thr Phe Ile Ser Tyr
145     150     155     160
Ile Gly Cys Gly Ile Ser Ala Ile Phe Ser Ala Ala Thr Leu Leu Thr
165     170     175
Tyr Val Ala Phe Glu Lys Leu Arg Arg Asp Tyr Pro Ser Lys Ile Leu
180     185     190
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu
195     200     205
Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val
210     215     220
Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly
225     230     235     240
Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr
245     250     255
Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu
260     265     270
Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu
275     280     285
Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys
290     295     300
Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe
305     310     315     320
Gly Val Met Phe Phe Leu Asn Ile Ala Met Phe Ile Val Val Met Val
325     330     335
Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu
340     345     350
Glu Val Leu Arg Asn Leu Arg Ser Val Val Ser Leu Thr Phe Leu Leu
355     360     365
Gly Met Thr Trp Gly Phe Ala Phe Phe Ala Trp Gly Pro Leu Asn Ile
370     375     380
Pro Phe Met Tyr Leu Phe Ser Ile Phe Asn Ser Leu Gln Gly Leu Phe
385     390     395     400
Ile Phe Ile Phe His Cys Ala Met Lys Glu Asn Val Gln Lys Gln Trp
405     410     415
Arg Arg His Leu Cys Cys Gly Arg Phe Arg Leu Ala Asp Asn Ser Asp
420     425     430
Trp Ser Lys Thr Ala Thr Asn Ile Ile Lys Lys Ser Ser Asp Asn Leu
435     440     445
Gly Lys Ser Leu Ser Ser Ser Ser Ile Gly Ser Asn Ser Thr Tyr Leu
450     455     460
Thr Ser Lys Ser Lys Ser Ser Ser Thr Thr Tyr Phe Lys Arg Asn Ser
465     470     475     480
His Thr Asp Asn Val Ser Tyr Glu His Ser Phe Asn Lys Ser Gly Ser
485     490     495
Leu Arg Gln Cys Phe His Gly Gln Val Leu Val Lys Thr Gly Pro Cys
500     505     510

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<210> 273

<211> 355  
 <212> PRT  
 <213> Homo sapiens  
 <400> 273

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Met Ala Ala Pro Ala Phe Glu Pro Gly Arg Gln Ser Asp Leu Leu Val
1      5      10      15
Lys Leu Asn Arg Leu Met Glu Arg Cys Leu Arg Asn Ser Lys Cys Ile
20      25      30
Asp Thr Glu Ser Leu Cys Val Val Ala Gly Glu Lys Val Trp Gln Ile
35      40      45
Arg Val Asp Leu His Leu Leu Asn His Asp Gly Asn Ile Ile Asp Ala
50      55      60
Ala Ser Ile Ala Ala Ile Val Ala Leu Cys His Phe Arg Arg Pro Asp
65      70      75      80
Val Ser Val Gln Gly Asp Glu Val Thr Leu Tyr Thr Pro Glu Glu Arg
85      90      95
Asp Pro Val Pro Leu Ser Ile His His Met Pro Ile Cys Val Ser Phe
100     105     110
Ala Phe Phe Gln Gln Gly Thr Tyr Leu Leu Val Asp Pro Asn Glu Arg
115     120     125
Glu Glu Arg Val Met Asp Gly Leu Leu Val Ile Ala Met Asn Lys His
130     135     140
Arg Glu Ile Cys Thr Ile Gln Ser Ser Gly Gly Ile Met Leu Leu Lys
145     150     155     160
Asp Gln Val Leu Arg Cys Ser Lys Ile Ala Gly Val Lys Val Ala Glu
165     170     175
Ile Thr Glu Leu Ile Leu Lys Ala Leu Glu Asn Asp Gln Lys Val Arg
180     185     190
Lys Glu Gly Lys Phe Gly Phe Ala Glu Ser Ile Ala Asn Gln Arg
195     200     205
Ile Thr Ala Phe Lys Met Glu Lys Ala Pro Ile Asp Thr Ser Asp Val
210     215     220
Glu Glu Lys Ala Glu Glu Ile Ile Ala Glu Ala Glu Pro Pro Ser Glu
225     230     235     240
Val Val Ser Thr Pro Val Leu Trp Thr Pro Gly Thr Ala Gln Ile Gly
245     250     255
Glu Gly Val Glu Asn Ser Trp Gly Asp Leu Glu Asp Ser Glu Lys Glu
260     265     270
Asp Asp Glu Gly Gly Asp Gln Ala Ile Ile Leu Asp Gly Ile Lys
275     280     285
Met Asp Thr Gly Val Glu Val Ser Asp Ile Gly Ser Gln Asp Ala Pro
290     295     300
Ile Ile Leu Ser Asp Ser Glu Glu Glu Glu Met Ile Ile Leu Glu Pro
305     310     315     320
Asp Lys Asn Pro Lys Lys Ile Arg Thr Gln Thr Thr Ser Ala Lys Gln
325     330     335
Glu Lys Ala Pro Ser Lys Lys Pro Val Lys Arg Arg Lys Lys Lys Arg
340     345     350
Ala Ala Asn
355

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<210> 274  
 <211> 940  
 <212> PRT  
 <213> Homo sapiens  
 <400> 274

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Met Ile Leu Glu Gln Tyr Val Val Val Ser Asn Tyr Lys Lys Gln Glu
1      5      10      15
Asn Ser Glu Leu Ser Leu Gln Ala Gly Glu Val Val Asp Val Ile Glu
20      25      30
Lys Asn Glu Ser Gly Trp Trp Phe Val Ser Thr Ser Glu Glu Gln Gly
35      40      45
Trp Val Pro Ala Thr Tyr Leu Glu Ala Gln Asn Gly Thr Arg Asp Asp
50      55      60
Ser Asp Ile Asn Thr Ser Lys Thr Gly Glu Glu Lys Tyr Val Thr
65      70      75      80
Val Gln Pro Tyr Thr Ser Gln Ser Lys Asp Glu Ile Gly Phe Glu Lys
85      90      95
Gly Val Thr Val Glu Val Ile Arg Lys Asn Leu Glu Gly Trp Trp Tyr

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Ala Tyr Gln Lys Val Gln Asp Ser Glu Ile Ser Phe Pro Ala Gly Val  
 660 665 670  
 Glu Val Gln Val Leu Glu Lys Gln Glu Ser Gly Trp Trp Tyr Val Arg  
 675 680 685  
 Phe Gly Glu Leu Glu Gly Trp Ala Pro Ser His Tyr Leu Val Leu Asp  
 690 695 700  
 Glu Asn Glu Gln Pro Asp Pro Ser Gly Lys Glu Leu Asp Thr Val Pro  
 705 710 715 720  
 Ala Lys Gly Arg Gln Asn Glu Gly Lys Ser Asp Ser Leu Glu Lys Ile  
 725 730 735  
 Glu Arg Arg Val Gln Ala Leu Asn Thr Val Asn Gln Ser Lys Lys Ala  
 740 745 750  
 Thr Pro Pro Ile Pro Ser Lys Pro Pro Gly Gly Phe Gly Lys Thr Ser  
 755 760 765  
 Gly Thr Pro Ala Val Lys Met Arg Asn Gly Val Arg Gln Val Ala Val  
 770 775 780  
 Arg Pro Gln Ser Val Phe Val Ser Pro Pro Pro Lys Asp Asn Asn Leu  
 785 790 795 800  
 Ser Cys Ala Leu Arg Arg Asn Glu Ser Leu Thr Ala Thr Asp Gly Leu  
 805 810 815  
 Arg Gly Val Arg Arg Asn Ser Ser Phe Ser Thr Ala Arg Ser Ala Ala  
 820 825 830  
 Ala Glu Ala Lys Gly Arg Leu Ala Glu Arg Ala Ala Ser Gln Gly Ser  
 835 840 845  
 Asp Ser Pro Leu Leu Pro Ala Gln Arg Asn Ser Ile Pro Val Ser Pro  
 850 855 860  
 Val Arg Pro Lys Pro Ile Glu Lys Ser Gln Phe Ile His Asn Asn Leu  
 865 870 875 880  
 Lys Asp Val Tyr Val Ser Ile Ala Asp Tyr Glu Gly Asp Glu Glu Thr  
 885 890 895  
 Ala Gly Phe Gln Glu Gly Val Ser Met Glu Val Leu Glu Arg Asn Pro  
 900 905 910  
 Asn Gly Trp Trp Tyr Cys Gln Ile Leu Asp Gly Val Lys Pro Phe Lys  
 915 920 925  
 Gly Trp Val Pro Ser Asn Tyr Leu Glu Lys Lys Asn  
 930 935 940

<210> 275  
 <211> 871  
 <212> PRT  
 <213> Homo sapiens  
 <400> 275

Met Lys Tyr Ser Cys Cys Ala Leu Val Leu Ala Val Leu Gly Thr Glu  
 1 5 10 15  
 Leu Leu Gly Ser Leu Cys Ser Thr Val Arg Ser Pro Arg Phe Arg Gly  
 20 25 30  
 Arg Ile Gln Gln Glu Arg Lys Asn Ile Arg Pro Asn Ile Ile Leu Val  
 35 40 45  
 Pro Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Leu Gln Val Met Asn  
 50 55 60  
 Lys Thr Arg Lys Ile Met Glu His Gly Gly Ala Thr Phe Ile Asn Ala  
 65 70 75 80  
 Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Met Leu Thr  
 85 90 95  
 Gly Lys Tyr Val His Asn His Asn Val Tyr Thr Asn Asn Glu Asn Cys  
 100 105 110  
 Ser Ser Pro Ser Trp Gln Ala Met His Glu Pro Arg Thr Phe Ala Val  
 115 120 125  
 Tyr Leu Asn Asn Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr Leu  
 130 135 140  
 Asn Glu Tyr Asn Gly Ser Tyr Ile Pro Pro Gly Trp Arg Glu Trp Leu  
 145 150 155 160  
 Gly Leu Ile Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Val Cys Arg Asn  
 165 170 175  
 Gly Ile Lys Glu Lys His Gly Phe Asp Tyr Ala Lys Asp Tyr Phe Thr  
 180 185 190  
 Asp Leu Ile Thr Asn Glu Ser Ile Asn Tyr Phe Lys Met Ser Lys Arg  
 195 200 205  
 Met Tyr Pro His Arg Pro Val Met Met Val Ile Ser His Ala Ala Pro

210	His Gly Pro Glu Asp Ser	215	Ala Pro Gln Phe Ser	220	Lys Leu Tyr Pro Asn
225	Ala Ser Gln His Ile Thr	230	Pro Ser Tyr Asn Tyr	235	Ala Pro Asn Met Asp
	245		250		255
Lys His Trp Ile Met Gln Tyr Thr	260	Gly Pro Met Leu Pro Ile His Met	265		270
Glu Phe Thr Asn Ile Leu Gln Arg Lys Arg Leu Gln Thr Leu Met Ser	275	280	285		
Val Asp Asp Ser Val Glu Arg Leu Tyr Asn Met Leu Val Glu Thr Gly	290	295	300		
Glu Leu Glu Asn Thr Tyr Ile Ile Tyr Thr Ala Asp His Gly Tyr His	305	310	315		320
Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Asp Phe	325	330	335		
Asp Ile Arg Val Pro Phe Phe Ile Arg Gly Pro Ser Val Glu Pro Gly	340	345	350		
Ser Ile Val Pro Gln Ile Val Leu Asn Ile Asp Leu Ala Pro Thr Ile	355	360	365		
Leu Asp Ile Ala Gly Leu Asp Thr Pro Pro Asp Val Asp Gly Lys Ser	370	375	380		
Val Leu Lys Leu Leu Asp Pro Glu Lys Pro Gly Asn Arg Phe Arg Thr	385	390	395		400
Asn Lys Lys Ala Lys Ile Trp Arg Asp Thr Phe Leu Val Glu Arg Gly	405	410	415		
Lys Phe Leu Arg Lys Lys Glu Glu Ser Ser Lys Asn Ile Gln Gln Ser	420	425	430		
Asn His Leu Pro Lys Tyr Glu Arg Val Lys Glu Leu Cys Gln Gln Ala	435	440	445		
Arg Tyr Gln Thr Ala Cys Glu Gln Pro Gly Gln Lys Trp Gln Cys Ile	450	455	460		
Glu Asp Thr Ser Gly Lys Leu Arg Ile His Lys Cys Lys Gly Pro Ser	465	470	475		480
Asp Leu Leu Thr Val Arg Gln Ser Thr Arg Asn Leu Tyr Ala Arg Gly	485	490	495		
Phe His Asp Lys Asp Lys Glu Cys Ser Cys Arg Glu Ser Gly Tyr Arg	500	505	510		
Ala Ser Arg Ser Gln Arg Lys Ser Gln Arg Gln Phe Leu Arg Asn Gln	515	520	525		
Gly Thr Pro Lys Tyr Lys Pro Arg Phe Val His Thr Arg Gln Thr Arg	530	535	540		
Ser Leu Ser Val Glu Phe Glu Gly Glu Ile Tyr Asp Ile Asn Leu Glu	545	550	555		560
Glu Glu Glu Glu Leu Gln Val Leu Gln Pro Arg Asn Ile Ala Lys Arg	565	570	575		
His Asp Glu Gly His Lys Gly Pro Arg Asp Leu Gln Ala Ser Ser Gly	580	585	590		
Gly Asn Arg Gly Arg Met Leu Ala Asp Ser Ser Asn Ala Val Gly Pro	595	600	605		
Pro Thr Thr Val Arg Val Thr His Lys Cys Phe Ile Leu Pro Asn Asp	610	615	620		
Ser Ile His Cys Glu Arg Glu Leu Tyr Gln Ser Ala Arg Ala Trp Lys	625	630	635		640
Asp His Lys Ala Tyr Ile Asp Lys Glu Ile Glu Ala Leu Gln Asp Lys	645	650	655		
Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Arg Arg Lys Pro	660	665	670		
Glu Glu Cys Ser Cys Ser Lys Gln Ser Tyr Tyr Asn Lys Glu Lys Gly	675	680	685		
Val Lys Lys Gln Glu Lys Leu Lys Ser His Leu His Pro Phe Lys Glu	690	695	700		
Ala Ala Gln Glu Val Asp Ser Lys Leu Gln Leu Phe Lys Glu Asn Asn	705	710	715		720
Arg Arg Arg Lys Lys Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly	725	730	735		
Glu Glu Cys Ser Leu Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn	740	745	750		
His Trp Gln Thr Ala Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys	755	760	765		

Thr Ser Ser Asn Asn Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu  
 770 775 780  
 Thr His Asn Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr  
 785 790 795 800  
 Phe Asp Met Asn Thr Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr  
 805 810 815  
 Val Glu Arg Gly Ile Leu Asn Gln Leu His Val Gln Leu Met Glu Leu  
 820 825 830  
 Arg Ser Cys Gln Gly Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu  
 835 840 845  
 Asp Val Gly Asn Lys Asp Gly Gly Ser Tyr Asp Leu His Arg Gly Gln  
 850 855 860  
 Leu Trp Asp Gly Trp Glu Gly  
 865 870

<210> 276  
 <211> 1426  
 <212> PRT  
 <213> Homo sapiens  
 <400> 276

Met Asn Asp Trp His Arg Ile Phe Thr Gln Asn Val Leu Val Pro Pro  
 1 5 10 15  
 His Pro Gln Arg Ala Arg Gln Pro Trp Lys Glu Ser Thr Ala Phe Gln  
 20 25 30  
 Cys Val Leu Lys Trp Leu Asp Gly Pro Val Ile Arg Gln Gly Val Leu  
 35 40 45  
 Glu Val Leu Ser Glu Val Glu Cys His Leu Arg Val Ser Phe Phe Asp  
 50 55 60  
 Val Thr Tyr Arg His Phe Phe Gly Arg Thr Trp Lys Thr Thr Val Lys  
 65 70 75 80  
 Pro Thr Lys Arg Pro Pro Ser Arg Ile Val Phe Asn Glu Pro Leu Tyr  
 85 90 95  
 Phe His Thr Ser Leu Asn His Pro His Ile Val Ala Val Val Glu Val  
 100 105 110  
 Val Ala Glu Gly Lys Lys Arg Asp Gly Ser Leu Gln Thr Leu Ser Cys  
 115 120 125  
 Gly Phe Gly Ile Leu Arg Ile Phe Ser Asn Gln Pro Asp Ser Pro Ile  
 130 135 140  
 Ser Ala Ser Gln Asp Lys Arg Leu Arg Leu Tyr His Gly Thr Pro Arg  
 145 150 155 160  
 Ala Leu Leu His Pro Leu Leu Gln Asp Pro Ala Glu Gln Asn Arg His  
 165 170 175  
 Met Thr Leu Ile Glu Asn Cys Ser Leu Gln Tyr Thr Leu Lys Pro His  
 180 185 190  
 Pro Ala Leu Glu Pro Ala Phe His Leu Leu Pro Glu Asn Leu Leu Val  
 195 200 205  
 Ser Gly Leu Gln Gln Ile Pro Gly Leu Leu Pro Ala His Gly Glu Ser  
 210 215 220  
 Gly Asp Ala Leu Arg Lys Pro Arg Leu Gln Lys Pro Ile Thr Gly His  
 225 230 235 240  
 Leu Asp Asp Leu Phe Phe Thr Leu Tyr Pro Ser Leu Glu Lys Phe Glu  
 245 250 255  
 Glu Glu Leu Leu Glu Leu His Val Gln Asp His Phe Gln Glu Gly Cys  
 260 265 270  
 Gly Pro Leu Asp Gly Gly Ala Leu Glu Ile Leu Glu Arg Arg Leu Arg  
 275 280 285  
 Val Gly Val His Asn Gly Leu Gly Phe Val Gln Arg Pro Gln Val Val  
 290 295 300  
 Val Leu Val Pro Glu Met Asp Val Ala Leu Thr Arg Ser Ala Ser Phe  
 305 310 315 320  
 Ser Arg Lys Val Val Ser Ser Ser Lys Thr Ser Ser Gly Ser Gln Ala  
 325 330 335  
 Leu Val Leu Arg Ser Arg Leu Arg Leu Pro Glu Met Val Gly His Pro  
 340 345 350  
 Ala Phe Ala Val Ile Phe Gln Leu Glu Tyr Val Phe Ser Ser Pro Ala  
 355 360 365  
 Gly Val Asp Gly Asn Ala Ala Ser Val Thr Ser Leu Ser Asn Leu Ala  
 370 375 380  
 Cys Met His Met Val Arg Trp Ala Val Trp Asn Pro Leu Leu Glu Ala

385	Asp	Ser	Gly	Arg	Val	Thr	Leu	Pro	Leu	Gln	Gly	Gly	Ile	Gln	Pro	Asn	400
					405					410						415	
	Pro	Ser	His	Cys	Leu	Val	Tyr	Lys	Val	Pro	Ser	Ala	Ser	Met	Ser	Ser	
				420					425					430			
	Glu	Glu	Val	Lys	Gln	Val	Glu	Ser	Gly	Thr	Leu	Arg	Phe	Gln	Phe	Ser	
				435					440				445				
	Leu	Gly	Ser	Glu	Glu	His	Leu	Asp	Ala	Pro	Thr	Glu	Pro	Val	Ser	Gly	
				450			455					460					
	Pro	Lys	Val	Glu	Arg	Arg	Pro	Ser	Arg	Lys	Pro	Pro	Thr	Ser	Pro	Ser	
						470					475					480	
	Ser	Pro	Pro	Ala	Pro	Val	Pro	Arg	Val	Leu	Ala	Ala	Pro	Gln	Asn	Ser	
				485						490					495		
	Pro	Val	Gly	Pro	Gly	Leu	Ser	Ile	Ser	Gln	Leu	Ala	Ala	Ser	Pro	Arg	
				500					505					510			
	Ser	Pro	Thr	Gln	His	Cys	Leu	Ala	Arg	Pro	Thr	Ser	Gln	Leu	Pro	His	
				515				520					525				
	Gly	Ser	Gln	Ala	Ser	Pro	Ala	Gln	Ala	Gln	Glu	Phe	Pro	Leu	Glu	Ala	
							535					540					
	Gly	Ile	Ser	His	Leu	Glu	Ala	Asp	Leu	Ser	Gln	Thr	Ser	Leu	Val	Leu	
						550					555					560	
	Glu	Thr	Ser	Ile	Ala	Glu	Gln	Leu	Gln	Glu	Leu	Pro	Phe	Thr	Pro	Leu	
				565						570						575	
	His	Ala	Pro	Ile	Val	Val	Gly	Thr	Gln	Thr	Arg	Ser	Ser	Ala	Gly	Gln	
				580					585					590			
	Pro	Ser	Arg	Ala	Ser	Met	Val	Leu	Leu	Gln	Ser	Ser	Gly	Phe	Pro	Glu	
				595				600					605				
	Ile	Leu	Asp	Ala	Asn	Lys	Gln	Pro	Ala	Glu	Ala	Val	Ser	Ala	Thr	Glu	
						615						620					
	Pro	Val	Thr	Phe	Asn	Pro	Gln	Lys	Glu	Glu	Ser	Asp	Cys	Leu	Gln	Ser	
						630					635					640	
	Asn	Glu	Met	Val	Leu	Gln	Phe	Leu	Ala	Phe	Ser	Arg	Val	Ala	Gln	Asp	
				645						650					655		
	Cys	Arg	Gly	Thr	Ser	Trp	Pro	Lys	Thr	Val	Tyr	Phe	Thr	Phe	Gln	Phe	
				660					665					670			
	Tyr	Arg	Phe	Pro	Pro	Ala	Thr	Thr	Pro	Arg	Leu	Gln	Leu	Val	Gln	Leu	
				675				680					685				
	Asp	Glu	Ala	Gly	Gln	Pro	Ser	Ser	Gly	Ala	Leu	Thr	His	Ile	Leu	Val	
						695					700						
	Pro	Val	Ser	Arg	Asp	Gly	Thr	Phe	Asp	Ala	Gly	Ser	Pro	Gly	Phe	Gln	
						710					715					720	
	Leu	Arg	Tyr	Met	Val	Gly	Pro	Gly	Phe	Leu	Lys	Pro	Gly	Glu	Arg	Arg	
				725						730					735		
	Cys	Phe	Ala	Arg	Tyr	Leu	Ala	Val	Gln	Thr	Leu	Gln	Ile	Asp	Val	Trp	
				740					745					750			
	Asp	Gly	Asp	Ser	Leu	Leu	Leu	Ile	Gly	Ser	Ala	Ala	Val	Gln	Met	Lys	
				755				760					765				
	His	Leu	Leu	Arg	Gln	Gly	Arg	Pro	Ala	Val	Gln	Ala	Ser	His	Glu	Leu	
						775					780						
	Glu	Val	Val	Ala	Thr	Glu	Tyr	Glu	Gln	Asp	Asn	Met	Val	Val	Ser	Gly	
						790					795					800	
	Asp	Met	Leu	Gly	Phe	Gly	Arg	Val	Lys	Pro	Ile	Gly	Val	His	Ser	Val	
				805					810						815		
	Val	Lys	Gly	Arg	Leu	His	Leu	Thr	Leu	Ala	Asn	Val	Gly	His	Pro	Cys	
				820					825					830			
	Glu	Gln	Lys	Val	Arg	Gly	Cys	Ser	Thr	Leu	Pro	Pro	Ser	Arg	Ser	Arg	
				835				840					845				
	Val	Ile	Ser	Asn	Asp	Gly	Ala	Ser	Arg	Phe	Ser	Gly	Gly	Ser	Leu	Leu	
						855					860						
	Thr	Thr	Gly	Ser	Ser	Arg	Arg	Lys	His	Val	Val	Gln	Ala	Gln	Lys	Leu	
						870					875					880	
	Ala	Asp	Val	Asp	Ser	Glu	Leu	Ala	Ala	Met	Leu	Leu	Thr	His	Ala	Arg	
				885					890						895		
	Gln	Gly	Lys	Gly	Pro	Gln	Asp	Val	Ser	Arg	Glu	Ser	Asp	Ala	Thr	Arg	
				900					905					910			
	Arg	Arg	Lys	Leu	Glu	Arg	Met	Arg	Ser	Val	Arg	Leu	Gln	Glu	Ala	Gly	
				915				920					925				
	Gly	Asp	Leu	Gly	Arg	Arg	Gly	Thr	Ser	Val	Leu	Ala	Gln	Gln	Ser	Val	
				930			935					940					

Arg Thr Gln His Leu Arg Asp Leu Gln Val Ile Ala Ala Tyr Arg Glu  
 945 950 955 960  
 Arg Thr Lys Ala Glu Ser Ile Ala Ser Leu Leu Ser Leu Ala Ile Thr  
 965 970 975  
 Thr Glu His Thr Leu His Ala Thr Leu Gly Val Ala Glu Phe Phe Glu  
 980 985 990  
 Phe Val Leu Lys Asn Pro His Asn Thr Gln His Thr Val Thr Val Glu  
 995 1000 1005  
 Ile Asp Asn Pro Glu Leu Ser Val Ile Val Asp Ser Gln Glu Trp  
 1010 1015 1020  
 Arg Asp Phe Lys Gly Ala Ala Gly Leu His Thr Pro Val Glu Glu  
 1025 1030 1035  
 Asp Met Phe His Leu Arg Gly Ser Leu Ala Pro Gln Leu Tyr Leu  
 1040 1045 1050  
 Arg Pro His Glu Thr Ala His Val Pro Phe Lys Phe Gln Ser Phe  
 1055 1060 1065  
 Ser Ala Gly Gln Leu Ala Met Val Gln Ala Ser Pro Gly Leu Ser  
 1070 1075 1080  
 Asn Glu Lys Gly Met Asp Ala Val Ser Pro Trp Lys Ser Ser Ala  
 1085 1090 1095  
 Val Pro Thr Lys His Ala Lys Val Leu Phe Arg Ala Ser Gly Gly  
 1100 1105 1110  
 Lys Pro Ile Ala Val Leu Cys Leu Thr Val Glu Leu Gln Pro His  
 1115 1120 1125  
 Val Val Asp Gln Val Phe Arg Phe Tyr His Pro Glu Leu Ser Phe  
 1130 1135 1140  
 Leu Lys Lys Ala Ile Arg Leu Pro Pro Trp His Thr Phe Pro Gly  
 1145 1150 1155  
 Ala Pro Val Gly Met Leu Gly Glu Asp Pro Pro Val His Val Arg  
 1160 1165 1170  
 Cys Ser Asp Pro Asn Val Ile Cys Glu Thr Gln Asn Val Gly Pro  
 1175 1180 1185  
 Gly Glu Pro Arg Asp Ile Phe Leu Lys Val Ala Ser Gly Pro Ser  
 1190 1195 1200  
 Pro Glu Ile Lys Asp Phe Phe Val Ile Ile Tyr Ser Asp Arg Trp  
 1205 1210 1215  
 Leu Ala Thr Pro Thr Gln Thr Trp Gln Val Tyr Leu His Ser Leu  
 1220 1225 1230  
 Gln Arg Val Asp Val Ser Cys Val Ala Gly Gln Leu Thr Arg Leu  
 1235 1240 1245  
 Ser Leu Val Leu Arg Gly Thr Gln Thr Val Arg Lys Val Arg Ala  
 1250 1255 1260  
 Phe Thr Ser His Pro Gln Glu Leu Lys Thr Asp Pro Lys Gly Val  
 1265 1270 1275  
 Phe Val Leu Pro Pro Arg Gly Val Gln Asp Leu His Val Gly Val  
 1280 1285 1290  
 Arg Pro Leu Arg Ala Gly Ser Arg Phe Val His Leu Asn Leu Val  
 1295 1300 1305  
 Asp Val Asp Cys His Gln Leu Val Ala Ser Trp Leu Val Cys Leu  
 1310 1315 1320  
 Cys Cys Arg Gln Pro Leu Ile Ser Lys Ala Phe Glu Ile Met Leu  
 1325 1330 1335  
 Ala Ala Gly Glu Gly Lys Gly Val Asn Lys Arg Ile Thr Tyr Thr  
 1340 1345 1350  
 Asn Pro Tyr Pro Ser Arg Arg Thr Phe His Leu His Ser Asp His  
 1355 1360 1365  
 Pro Glu Leu Leu Arg Phe Arg Glu Asp Ser Phe Gln Val Gly Gly  
 1370 1375 1380  
 Gly Glu Thr Tyr Thr Ile Gly Leu Gln Phe Ala Pro Ser Gln Arg  
 1385 1390 1395  
 Val Gly Glu Glu Glu Ile Leu Ile Tyr Ile Asn Asp His Glu Asp  
 1400 1405 1410  
 Lys Asn Glu Glu Ala Phe Cys Val Lys Val Ile Tyr Gln  
 1415 1420 1425

&lt;210&gt; 277

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

Met Met Trp Gln Lys Tyr Ala Gly Ser Arg Arg Ser Met Pro Leu Gly  
 1 5 10 15  
 Val Arg Ile Leu Phe His Gly Val Phe Tyr Ala Gly Gly Phe Ala Ile  
 20 25 30  
 Val Tyr Tyr Leu Ile Gln Lys Phe His Ser Arg Ala Leu Tyr Tyr Lys  
 35 40 45  
 Leu Ala Val Glu Gln Leu Gln Ser His Pro Glu Ala Gln Glu Ala Leu  
 50 55 60  
 Gly Pro Pro Leu Asn Ile His Tyr Leu Lys Leu Ile Asp Arg Glu Asn  
 65 70 75 80  
 Phe Val Asp Ile Val Asp Ala Lys Leu Lys Ile Pro Val Ser Gly Ser  
 85 90 95  
 Lys Ser Glu Gly Leu Leu Tyr Val His Ser Ser Arg Gly Gly Pro Phe  
 100 105 110  
 Gln Arg Trp His Leu Asp Glu Val Phe Leu Glu Leu Lys Asp Gly Gln  
 115 120 125  
 Gln Ile Pro Val Phe Lys Leu Ser Gly Glu Asn Gly Asp Glu Val Lys  
 130 135 140  
 Lys Glu  
 145

&lt;210&gt; 278

&lt;211&gt; 402

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

Met Lys Glu Thr Arg Gly Tyr Gly Gly Asp Ala Pro Phe Cys Thr Arg  
 1 5 10 15  
 Leu Asn His Ser Tyr Thr Gly Met Trp Ala Pro Glu Arg Ser Ala Glu  
 20 25 30  
 Ala Arg Gly Asn Leu Thr Arg Pro Pro Gly Ser Gly Glu Asp Cys Gly  
 35 40 45  
 Ser Val Ser Val Ala Phe Pro Ile Thr Met Leu Leu Thr Gly Phe Val  
 50 55 60  
 Gly Asn Ala Leu Ala Met Leu Leu Val Ser Arg Ser Tyr Arg Arg Arg  
 65 70 75 80  
 Glu Ser Lys Arg Lys Lys Ser Phe Leu Leu Cys Ile Gly Trp Leu Ala  
 85 90 95  
 Leu Thr Asp Leu Val Gly Gln Leu Leu Thr Thr Pro Val Val Ile Val  
 100 105 110  
 Val Tyr Leu Ser Lys Gln Arg Trp Glu His Ile Asp Pro Ser Gly Arg  
 115 120 125  
 Leu Cys Thr Phe Phe Gly Leu Thr Met Thr Val Phe Gly Leu Ser Ser  
 130 135 140  
 Leu Phe Ile Ala Ser Ala Met Ala Val Glu Arg Ala Leu Ala Ile Arg  
 145 150 155 160  
 Ala Pro His Trp Tyr Ala Ser His Met Lys Thr Arg Ala Thr Arg Ala  
 165 170 175  
 Val Leu Leu Gly Val Trp Leu Ala Val Leu Ala Phe Ala Leu Leu Pro  
 180 185 190  
 Val Leu Gly Val Gly Gln Tyr Thr Val Gln Trp Pro Gly Thr Trp Cys  
 195 200 205  
 Phe Ile Ser Thr Gly Arg Gly Gly Asn Gly Thr Ser Ser Ser His Asn  
 210 215 220  
 Trp Gly Asn Leu Phe Phe Ala Ser Ala Phe Ala Phe Leu Gly Leu Leu  
 225 230 235 240  
 Ala Leu Thr Val Thr Phe Ser Cys Asn Leu Ala Thr Ile Lys Ala Leu  
 245 250 255  
 Val Ser Arg Cys Arg Ala Lys Ala Thr Ala Ser Gln Ser Ser Ala Gln  
 260 265 270  
 Trp Gly Arg Ile Thr Thr Glu Thr Ala Ile Gln Leu Met Gly Ile Met  
 275 280 285  
 Cys Val Leu Ser Val Cys Trp Ser Pro Leu Leu Ile Met Met Leu Lys  
 290 295 300  
 Met Ile Phe Asn Gln Thr Ser Val Glu His Cys Lys Thr His Thr Glu  
 305 310 315 320  
 Lys Gln Lys Glu Cys Asn Phe Phe Leu Ile Ala Val Arg Leu Ala Ser  
 325 330 335

Leu Asn Gln Ile Leu Asp Pro Trp Val Tyr Leu Leu Leu Arg Lys Ile  
 340 345 350  
 Leu Leu Arg Lys Phe Cys Gln Met Arg Lys Arg Arg Leu Arg Glu Gln  
 355 360 365  
 Glu Met Gly Pro Asp Gly Arg Cys Phe Cys His Ala Trp Arg Gln Val  
 370 375 380  
 Pro Arg Thr Trp Cys Ser Ser His Asp Arg Glu Pro Cys Ser Val Gln  
 385 390 395 400  
 Leu Ser

<210> 279  
 <211> 1741  
 <212> PRT  
 <213> Homo sapiens  
 <400> 279

Met Arg Leu Leu Trp Gly Leu Ile Trp Ala Ser Ser Phe Phe Thr Leu  
 1 5 10 15  
 Ser Leu Gln Lys Pro Arg Leu Leu Leu Phe Ser Pro Ser Val Val His  
 20 25 30  
 Leu Gly Val Pro Leu Ser Val Gly Val Gln Leu Gln Asp Val Pro Arg  
 35 40 45  
 Gly Gln Val Val Lys Gly Ser Val Phe Leu Arg Asn Pro Ser Arg Asn  
 50 55 60  
 Asn Val Pro Cys Ser Pro Lys Val Asp Phe Thr Leu Ser Ser Glu Arg  
 65 70 75 80  
 Asp Phe Ala Leu Leu Ser Leu Gln Val Pro Leu Lys Asp Ala Lys Ser  
 85 90 95  
 Cys Gly Leu His Gln Leu Leu Arg Gly Pro Glu Val Gln Leu Val Ala  
 100 105 110  
 His Ser Pro Trp Leu Lys Asp Ser Leu Ser Arg Thr Thr Asn Ile Gln  
 115 120 125  
 Gly Ile Asn Leu Leu Phe Ser Ser Arg Arg Gly His Leu Phe Leu Gln  
 130 135 140  
 Thr Asp Gln Pro Ile Tyr Asn Pro Gly Gln Arg Val Arg Tyr Arg Val  
 145 150 155 160  
 Phe Ala Leu Asp Gln Lys Met Arg Pro Ser Thr Asp Thr Ile Thr Val  
 165 170 175  
 Met Val Glu Asn Ser His Gly Leu Arg Val Arg Lys Lys Glu Val Tyr  
 180 185 190  
 Met Pro Ser Ser Ile Phe Gln Asp Asp Phe Val Ile Pro Asp Ile Ser  
 195 200 205  
 Glu Pro Gly Thr Trp Lys Ile Ser Ala Arg Phe Ser Asp Gly Leu Glu  
 210 215 220  
 Ser Asn Ser Ser Thr Gln Phe Glu Val Lys Lys Tyr Val Leu Pro Asn  
 225 230 235 240  
 Phe Glu Val Lys Ile Thr Pro Gly Lys Pro Tyr Ile Leu Thr Val Pro  
 245 250 255  
 Gly His Leu Asp Glu Met Gln Leu Asp Ile Gln Ala Arg Tyr Ile Tyr  
 260 265 270  
 Gly Lys Pro Val Gln Gly Val Ala Tyr Val Arg Phe Gly Leu Leu Asp  
 275 280 285  
 Glu Asp Gly Lys Lys Thr Phe Phe Arg Gly Leu Glu Ser Gln Thr Lys  
 290 295 300  
 Leu Val Asn Gly Gln Ser His Ile Ser Leu Ser Lys Ala Glu Phe Gln  
 305 310 315 320  
 Asp Ala Leu Glu Lys Leu Asn Met Gly Ile Thr Asp Leu Gln Gly Leu  
 325 330 335  
 Arg Leu Tyr Val Ala Ala Ala Ile Ile Glu Ser Pro Gly Gly Glu Met  
 340 345 350  
 Glu Glu Ala Glu Leu Thr Ser Trp Tyr Phe Val Ser Ser Pro Phe Ser  
 355 360 365  
 Leu Asp Leu Ser Lys Thr Lys Arg His Leu Val Pro Gly Ala Pro Phe  
 370 375 380  
 Leu Leu Gln Ala Leu Val Arg Glu Met Ser Gly Ser Pro Ala Ser Gly  
 385 390 395 400  
 Ile Pro Val Lys Val Ser Ala Thr Val Ser Ser Pro Gly Ser Val Pro  
 405 410 415  
 Glu Ala Gln Asp Ile Gln Gln Asn Thr Asp Gly Ser Gly Gln Val Ser

420										425					430					
Ile	Pro	Ile	Ile	Pro	Gln	Thr	Ile	Ser	Glu	Leu	Gln	Leu	Ser	Val						
435										440					445					
Ser	Ala	Gly	Ser	Pro	His	Pro	Ala	Ile	Ala	Arg	Leu	Thr	Val	Ala	Ala					
450										455					460					
Pro	Pro	Ser	Gly	Gly	Pro	Gly	Phe	Leu	Ser	Ile	Glu	Arg	Pro	Asp	Ser					
465										470					475					
Arg	Pro	Pro	Arg	Val	Gly	Asp	Thr	Leu	Asn	Leu	Asn	Leu	Arg	Ala	Val					
485										490					495					
Gly	Ser	Gly	Ala	Thr	Phe	Ser	His	Tyr	Tyr	Tyr	Met	Ile	Leu	Ser	Arg					
500										505					510					
Gly	Gln	Ile	Val	Phe	Met	Asn	Arg	Glu	Pro	Lys	Arg	Thr	Leu	Thr	Ser					
515										520					525					
Val	Ser	Val	Phe	Val	Asp	His	His	Leu	Ala	Pro	Ser	Phe	Tyr	Phe	Val					
530										535					540					
Ala	Phe	Tyr	Tyr	His	Gly	Asp	His	Pro	Val	Ala	Asn	Ser	Leu	Arg	Val					
545										550					555					
Asp	Val	Gln	Ala	Gly	Ala	Cys	Glu	Gly	Lys	Leu	Glu	Leu	Ser	Val	Asp					
565										570					575					
Gly	Ala	Lys	Gln	Tyr	Arg	Asn	Gly	Glu	Ser	Val	Lys	Leu	His	Leu	Glu					
580										585					590					
Thr	Asp	Ser	Leu	Ala	Leu	Val	Ala	Leu	Gly	Ala	Leu	Asp	Thr	Ala	Leu					
595										600					605					
Tyr	Ala	Ala	Gly	Ser	Lys	Ser	His	Lys	Pro	Leu	Asn	Met	Gly	Lys	Val					
610										615					620					
Phe	Glu	Ala	Met	Asn	Ser	Tyr	Asp	Leu	Gly	Cys	Gly	Pro	Gly	Gly	Gly					
625										630					635					
Asp	Ser	Ala	Leu	Gln	Val	Phe	Gln	Ala	Ala	Gly	Leu	Ala	Phe	Ser	Asp					
645										650					655					
Gly	Asp	Gln	Trp	Thr	Leu	Ser	Arg	Lys	Arg	Leu	Ser	Cys	Pro	Lys	Glu					
660										665					670					
Lys	Thr	Thr	Arg	Lys	Lys	Arg	Asn	Val	Asn	Phe	Gln	Lys	Ala	Ile	Asn					
675										680					685					
Glu	Lys	Leu	Gly	Gln	Tyr	Ala	Ser	Pro	Thr	Ala	Lys	Arg	Cys	Cys	Gln					
690										695					700					
Asp	Gly	Val	Thr	Arg	Leu	Pro	Met	Met	Arg	Ser	Cys	Glu	Gln	Arg	Ala					
705										710					715					
Ala	Arg	Val	Gln	Gln	Pro	Asp	Cys	Arg	Glu	Pro	Phe	Leu	Ser	Cys	Cys					
725										730					735					
Gln	Phe	Ala	Glu	Ser	Leu	Arg	Lys	Lys	Ser	Arg	Asp	Lys	Gly	Gln	Ala					
740										745					750					
Gly	Leu	Gln	Arg	Ala	Leu	Glu	Ile	Leu	Gln	Glu	Glu	Asp	Leu	Ile	Asp					
755										760					765					
Glu	Asp	Asp	Ile	Pro	Val	Arg	Ser	Phe	Phe	Pro	Glu	Asn	Trp	Leu	Trp					
770										775					780					
Arg	Val	Glu	Thr	Val	Asp	Arg	Phe	Gln	Ile	Leu	Thr	Leu	Trp	Leu	Pro					
785										790					795					
Asp	Ser	Leu	Thr	Thr	Trp	Glu	Ile	His	Gly	Leu	Ser	Leu	Ser	Lys	Thr					
805										810					815					
Lys	Gly	Leu	Cys	Val	Ala	Thr	Pro	Val	Gln	Leu	Arg	Val	Phe	Arg	Glu					
820										825					830					
Phe	His	Leu	His	Leu	Arg	Leu	Pro	Met	Ser	Val	Arg	Arg	Phe	Glu	Gln					
835										840					845					
Leu	Glu	Leu	Arg	Pro	Val	Leu	Tyr	Asn	Tyr	Leu	Asp	Lys	Asn	Leu	Thr					
850										855					860					
Val	Ser	Val	His	Val	Ser	Pro	Val	Glu	Gly	Leu	Cys	Leu	Ala	Gly	Gly					
865										870					875					
Gly	Gly	Leu	Ala	Gln	Val	Leu	Val	Pro	Ala	Gly	Ser	Ala	Arg	Pro						
885										890					895					
Val	Ala	Phe	Ser	Val	Val	Pro	Thr	Ala	Ala	Ala	Ala	Val	Ser	Leu	Lys					
900										905					910					
Val	Val	Ala	Arg	Gly	Ser	Phe	Glu	Phe	Pro	Val	Gly	Asp	Ala	Val	Ser					
915										920					925					
Lys	Val	Leu	Gln	Ile	Glu	Lys	Glu	Gly	Ala	Ile	His	Arg	Glu	Glu	Leu					
930										935					940					
Val	Tyr	Glu	Leu	Asn	Pro	Leu	Asp	His	Arg	Gly	Arg	Thr	Leu	Glu	Ile					
945										950					955					
Pro	Gly	Asn	Ser	Asp	Pro	Asn	Met	Ile	Pro	Asp	Gly	Asp	Phe	Asn	Ser					
965										970					975					



Tyr Val Arg Val Thr Ala Ser Asp Pro Leu Asp Thr Leu Gly Ser Glu  
 980 985 990  
 Gly Ala Leu Ser Pro Gly Gly Val Ala Ser Leu Leu Arg Leu Pro Arg  
 995 1000 1005  
 Gly Cys Gly Glu Gln Thr Met Ile Tyr Leu Ala Pro Thr Leu Ala  
 1010 1015 1020  
 Ala Ser Arg Tyr Leu Asp Lys Thr Glu Gln Trp Ser Thr Leu Pro  
 1025 1030 1035  
 Pro Glu Thr Lys Asp His Ala Val Asp Leu Ile Gln Lys Gly Tyr  
 1040 1045 1050  
 Met Arg Ile Gln Gln Phe Arg Lys Ala Asp Gly Ser Tyr Ala Ala  
 1055 1060 1065  
 Trp Leu Ser Arg Asp Ser Ser Thr Trp Leu Thr Ala Phe Val Leu  
 1070 1075 1080  
 Lys Val Leu Ser Leu Ala Gln Glu Gln Val Gly Gly Ser Pro Glu  
 1085 1090 1095  
 Lys Leu Gln Glu Thr Ser Asn Trp Leu Leu Ser Gln Gln Gln Ala  
 1100 1105 1110  
 Asp Gly Ser Phe Gln Asp Pro Cys Pro Val Leu Asp Arg Ser Met  
 1115 1120 1125  
 Gln Gly Gly Leu Val Gly Asn Asp Glu Thr Val Ala Leu Thr Ala  
 1130 1135 1140  
 Phe Val Thr Ile Ala Leu His His Gly Leu Ala Val Phe Gln Asp  
 1145 1150 1155  
 Glu Gly Ala Glu Pro Leu Lys Gln Arg Val Glu Ala Ser Ile Ser  
 1160 1165 1170  
 Lys Ala Asn Ser Phe Leu Gly Glu Lys Ala Ser Ala Gly Leu Leu  
 1175 1180 1185  
 Gly Ala His Ala Ala Ala Ile Thr Ala Tyr Ala Leu Ser Leu Thr  
 1190 1195 1200  
 Lys Ala Pro Val Asp Leu Leu Gly Val Ala His Asn Asn Leu Met  
 1205 1210 1215  
 Ala Met Ala Gln Glu Thr Gly Asp Asn Leu Tyr Trp Gly Ser Val  
 1220 1225 1230  
 Thr Gly Ser Gln Ser Asn Ala Val Ser Pro Thr Pro Ala Pro Arg  
 1235 1240 1245  
 Asn Pro Ser Asp Pro Met Pro Gln Ala Pro Ala Leu Trp Ile Glu  
 1250 1255 1260  
 Thr Thr Ala Tyr Ala Leu Leu His Leu Leu Leu His Glu Gly Lys  
 1265 1270 1275  
 Ala Glu Met Ala Asp Gln Ala Ser Ala Trp Leu Thr Arg Gln Gly  
 1280 1285 1290  
 Ser Phe Gln Gly Gly Phe Arg Ser Thr Gln Asp Thr Val Ile Ala  
 1295 1300 1305  
 Leu Asp Ala Leu Ser Ala Tyr Trp Ile Ala Ser His Thr Thr Glu  
 1310 1315 1320  
 Glu Arg Gly Leu Asn Val Thr Leu Ser Ser Thr Gly Arg Asn Gly  
 1325 1330 1335  
 Phe Lys Ser His Ala Leu Gln Leu Asn Asn Arg Gln Ile Arg Gly  
 1340 1345 1350  
 Leu Glu Glu Glu Leu Gln Phe Ser Leu Gly Ser Lys Ile Asn Val  
 1355 1360 1365  
 Lys Val Gly Gly Asn Ser Lys Gly Thr Leu Lys Val Leu Arg Thr  
 1370 1375 1380  
 Tyr Asn Val Leu Asp Met Lys Asn Thr Thr Cys Gln Asp Leu Gln  
 1385 1390 1395  
 Ile Glu Val Thr Val Lys Gly His Val Glu Tyr Thr Met Glu Ala  
 1400 1405 1410  
 Asn Glu Asp Tyr Glu Tyr Asp Glu Leu Pro Ala Lys Asp Asp Pro  
 1415 1420 1425  
 Asp Ala Pro Leu Gln Pro Val Thr Pro Leu Gln Leu Phe Glu Gly  
 1430 1435 1440  
 Arg Arg Asn Arg Arg Arg Arg Glu Ala Pro Lys Val Val Glu Glu  
 1445 1450 1455  
 Gln Glu Ser Arg Val His Tyr Thr Val Cys Ile Trp Arg Asn Gly  
 1460 1465 1470  
 Lys Val Gly Leu Ser Gly Met Ala Ile Ala Asp Val Thr Leu Leu  
 1475 1480 1485  
 Ser Gly Phe His Ala Leu Arg Ala Asp Leu Glu Lys Leu Thr Ser

1490	Leu Ser Asp Arg Tyr Val	1495	Ser His Phe Glu Thr	1500	Glu Gly Pro His
1505	Val Leu Leu Tyr Phe Asp	1510	Val Pro Thr Ser	1515	Arg Glu Cys Val
1520	Gly Phe Glu Ala Val Gln	1525	Glu Val Pro Val Gly	1530	Leu Val Gln Pro
1535	Ala Ser Ala Thr Leu Tyr	1540	Asp Tyr Tyr Asn Pro	1545	Glu Arg Arg Cys
1550	Ser Val Phe Tyr Gly Ala	1555	Pro Ser Lys Ser Arg	1560	Leu Ala Thr
1565	Leu Cys Ser Ala Glu Val	1570	Cys Gln Cys Ala Glu	1575	Gly Lys Cys Pro
1580	Arg Gln Arg Arg Ala Leu	1585	Glu Arg Gly Leu Gln	1590	Asp Glu Asp Gly
1595	Tyr Arg Met Lys Phe Ala	1600	Cys Tyr Tyr Pro Arg	1605	Val Glu Tyr Gly
1610	Phe Gln Val Lys Val Leu	1615	Arg Glu Asp Ser Arg	1620	Ala Ala Phe Arg
1625	Leu Phe Glu Thr Lys Ile	1630	Thr Gln Val Leu His	1635	Phe Thr Lys Asp
1640	Val Lys Ala Ala Ala Asn	1645	Gln Met Arg Asn Phe	1650	Leu Val Arg Ala
1655	Ser Cys Arg Leu Arg Leu	1660	Glu Pro Gly Lys Glu	1665	Tyr Leu Ile Met
1670	Gly Leu Asp Gly Ala Thr	1675	Tyr Asp Leu Glu Gly	1680	His Pro Gln Tyr
1685	Leu Leu Asp Ser Asn Ser	1690	Trp Ile Glu Glu Met	1695	Pro Ser Glu Arg
1700	Leu Cys Arg Ser Thr Arg	1705	Gln Arg Ala Ala Cys	1710	Ala Gln Leu Asn
1715	Asp Phe Leu Gln Glu Tyr	1720	Gly Thr Gln Gly Cys	1725	Gln Val
1730		1735		1740	

<210> 280  
 <211> 2150  
 <212> PRT  
 <213> Homo sapiens  
 <400> 280

Met Tyr Pro Asn Trp Gly Arg Tyr Gly Gly Ser Ser His Tyr Pro Pro	1	5	10	15
Pro Pro Val Pro Pro Pro Pro Val Ala Leu Pro Glu Ala Ser Pro	20	25	30	35
Gly Pro Gly Tyr Ser Ser Ser Thr Pro Ala Ala Pro Ser Ser Ser	40	45	50	55
Gly Phe Met Ser Phe Arg Glu Gln His Leu Ala Gln Leu Gln Gln Leu	60	65	70	75
Gln Gln Met His Gln Lys Gln Met Gln Cys Val Leu Gln Pro His His	80	85	90	95
Leu Pro Pro Pro Pro Leu Pro Pro Pro Pro Val Met Pro Gly Gly Gly	100	105	110	115
Tyr Gly Asp Trp Gln Pro Pro Pro Pro Met Pro Pro Pro Pro Gly	120	125	130	135
Pro Ala Leu Ser Tyr Gln Lys Gln Gln Tyr Lys His Gln Met Leu	140	145	150	155
His His Gln Arg Asp Gly Pro Pro Gly Leu Val Pro Met Glu Leu Glu	160	165	170	175
Ser Pro Pro Glu Ser Pro Val Pro Pro Gly Ser Tyr Met Pro Pro	180	185	190	195
Ser Gln Ser Tyr Met Pro Pro Pro Gln Pro Pro Pro Ser Tyr Tyr Pro	200	205	210	215
Pro Thr Ser Ser Gln Pro Tyr Leu Pro Pro Ala Gln Pro Ser Pro Ser	220	225	230	235
Gln Ser Pro Pro Ser Gln Ser Tyr Leu Ala Pro Thr Pro Ser Tyr Ser	240	245	250	255
Ser Ser Ser Ser Ser Gln Ser Tyr Leu Ser His Ser Gln Ser Tyr	260	265	270	275
Leu Pro Ser Ser Gln Ala Ser Pro Ser Arg Pro Ser Gln Gly His Ser	280	285	290	295

Lys Ser Gln Leu Leu Ala Pro Pro Pro Pro Ser Ala Pro Pro Gly Asn  
 245 250 255  
 Lys Thr Thr Val Gln Gln Glu Pro Leu Glu Ser Gly Ala Lys Asn Lys  
 260 265 270  
 Ser Thr Glu Gln Gln Gln Ala Ala Pro Glu Pro Asp Pro Ser Thr Met  
 275 280 285  
 Thr Pro Gln Glu Gln Gln Gln Tyr Trp Tyr Arg Gln His Leu Leu Ser  
 290 295 300  
 Leu Gln Gln Arg Thr Lys Val His Leu Pro Gly His Lys Lys Gly Pro  
 305 310 315 320  
 Val Val Ala Lys Asp Thr Pro Glu Pro Val Lys Glu Glu Val Thr Val  
 325 330 335  
 Pro Ala Thr Ser Gln Val Pro Glu Ser Pro Ser Ser Glu Glu Pro Pro  
 340 345 350  
 Leu Pro Pro Pro Asn Glu Glu Val Pro Pro Pro Leu Pro Pro Glu Glu  
 355 360 365  
 Pro Gln Ser Glu Asp Pro Glu Glu Asp Ala Arg Leu Lys Gln Leu Gln  
 370 375 380  
 Ala Ala Ala Ala His Trp Gln Gln His Gln Gln His Arg Val Gly Phe  
 385 390 395 400  
 Gln Tyr Gln Gly Ile Met Gln Lys His Thr Gln Leu Gln Gln Ile Leu  
 405 410 415  
 Gln Gln Tyr Gln Gln Ile Ile Gln Pro Pro Pro His Ile Gln Thr Met  
 420 425 430  
 Ser Val Asp Met Gln Leu Arg His Tyr Glu Met Gln Gln Gln Gln Phe  
 435 440 445  
 Gln His Leu Tyr Gln Glu Trp Glu Arg Glu Phe Gln Leu Trp Glu Glu  
 450 455 460  
 Gln Leu His Ser Tyr Pro His Lys Asp Gln Leu Gln Glu Tyr Glu Lys  
 465 470 475 480  
 Gln Trp Lys Thr Trp Gln Gly His Met Lys Ala Thr Gln Ser Tyr Leu  
 485 490 495  
 Gln Glu Lys Val Asn Ser Phe Gln Asn Met Lys Asn Gln Tyr Met Gly  
 500 505 510  
 Asn Met Ser Met Pro Pro Pro Phe Val Pro Tyr Ser Gln Met Pro Pro  
 515 520 525  
 Pro Leu Pro Thr Met Pro Pro Pro Val Leu Pro Pro Ser Leu Pro Pro  
 530 535 540  
 Pro Val Met Pro Pro Ala Leu Pro Ala Thr Val Pro Pro Pro Gly Met  
 545 550 555 560  
 Pro Pro Pro Val Met Pro Pro Ser Leu Pro Thr Ser Val Pro Pro Pro  
 565 570 575  
 Gly Met Pro Pro Ser Leu Ser Ser Ala Gly Pro Pro Pro Val Leu Pro Pro  
 580 585 590  
 Pro Pro Ser Leu Ser Ser Ala Gly Pro Pro Pro Val Leu Pro Pro Pro  
 595 600 605  
 Ser Leu Ser Ser Thr Ala Pro Pro Pro Val Met Pro Leu Pro Pro Leu  
 610 615 620  
 Ser Ser Ala Thr Pro Pro Pro Gly Ile Pro Pro Pro Gly Val Pro Gln  
 625 630 635 640  
 Gly Ile Pro Pro Gln Leu Thr Ala Ala Pro Val Pro Pro Ala Ser Ser  
 645 650 655  
 Ser Gln Ser Ser Gln Val Pro Glu Lys Pro Arg Pro Ala Leu Leu Pro  
 660 665 670  
 Thr Pro Val Ser Phe Gly Ser Ala Pro Pro Thr Thr Tyr His Pro Pro  
 675 680 685  
 Leu Gln Ser Ala Gly Pro Ser Glu Gln Val Asn Ser Lys Ala Pro Leu  
 690 695 700  
 Ser Lys Ser Ala Leu Pro Tyr Ser Ser Phe Ser Ser Asp Gln Gly Leu  
 705 710 715 720  
 Gly Glu Ser Ser Ala Pro Ser Gln Pro Ile Thr Ala Val Lys Asp  
 725 730 735  
 Met Pro Val Arg Ser Gly Gly Leu Leu Pro Asp Pro Pro Arg Ser Ser  
 740 745 750  
 Tyr Leu Glu Ser Pro Arg Gly Pro Arg Phe Asp Gly Pro Arg Arg Phe  
 755 760 765  
 Glu Asp Leu Gly Ser Arg Cys Glu Gly Pro Arg Pro Lys Gly Pro Arg  
 770 775 780  
 Phe Glu Gly Asn Arg Pro Asp Gly Pro Arg Pro Arg Tyr Glu Gly His

785 Pro Ala Glu Gly Thr 790 Lys Ser Lys Trp 795 Gly Met Ile Pro Arg Gly Pro 800  
 Ala Ser Gln Phe Tyr 805 Ile Thr Pro Ser Thr Ser Leu Ser Pro Arg Gln 815  
 Ser Gly Pro Gln Trp Lys Gly Pro 825 Lys Pro Ala Phe Gly Gln Gln His 830  
 Gln Gln Gln Pro Lys Ser Gln Ala Glu Pro Leu Ser Gly Asn Lys Glu 845  
 Pro Leu Ala Asp Thr Ser 855 Ser Asn Gln Gln Lys Asn Phe Lys Met Gln 860  
 865 Ser Ala Ala Phe Ser 870 Ile Ala Ala Asp Val Lys Asp Val Lys Ala Ala 880  
 Gln Ser Asn Glu Asn Leu Ser Asp Ser Gln Gln Glu Pro Pro Lys Ser 895  
 Glu Val Ser Glu Gly Pro Val Glu Pro Ser Asn Trp Asp Gln Asn Val 910  
 Gln Ser Met Glu Thr Gln Ile Asp Lys Ala Gln Ala Val Thr Gln Pro 925  
 Val Pro Leu Ala Asn Lys Pro Val Pro Ala Gln Ser Thr Phe Pro Ser 940  
 945 Lys Thr Gly Gly Met Glu Gly Gly Thr Ala Val Ala Thr Ser Ser Leu 955  
 Thr Ala Asp Asn Asp Phe Lys Pro Val Gly Ile Gly Leu Pro His Ser 970  
 Glu Asn Asn Gln Asp Lys Gly Leu Pro Arg Pro Asp Asn Arg Asp Asn 980  
 Arg Leu Glu Gly Asn Arg Gly Asn Ser Ser Ser Tyr Arg Gly Pro 990  
 Gly Gln Ser Arg Met Glu Asp Thr Arg Asp Lys Gly Leu Val Asn 1000  
 Arg Gly Arg Gly Gln Ala Ile Ser Arg Gly Pro Gly Leu Val Lys 1005  
 Gln Glu Asp Phe Arg Asp Lys Met Met Gly Arg Arg Glu Asp Ser 1010  
 Arg Glu Lys Met Asn Arg Gly Glu Gly Ser Arg Asp Arg Gly Leu 1015  
 Val Arg Pro Gly Ser Ser Arg Glu Lys Val Pro Gly Gly Leu Gln 1020  
 Gly Ser Gln Asp Arg Gly Ala Ala Gly Ser Arg Glu Arg Gly Pro 1025  
 Pro Arg Arg Ala Gly Ser Gln Glu Arg Gly Pro Leu Arg Arg Ala 1030  
 Gly Ser Arg Glu Arg Ile Pro Pro Arg Arg Ala Gly Ser Arg Glu 1035  
 Arg Gly Pro Pro Arg Gly Pro Gly Ser Arg Glu Arg Gly Leu Gly 1040  
 Arg Ser Asp Phe Gly Arg Asp Arg Gly Pro Phe Arg Pro Glu Pro 1045  
 Gly Asp Gly Gly Glu Lys Met Tyr Pro Tyr His Arg Asp Glu Pro 1050  
 Pro Arg Ala Pro Trp Asn His Gly Glu Glu Arg Gly His Glu Glu 1055  
 Phe Pro Leu Asp Gly Arg Asn Ala Pro Met Glu Arg Glu Arg Leu 1060  
 Asp Asp Trp Asp Arg Glu Arg Tyr Trp Arg Glu Cys Glu Arg Asp 1065  
 Tyr Gln Asp Asp Thr Leu Glu Leu Tyr Asn Arg Glu Asp Arg Phe 1070  
 Ser Ala Pro Pro Ser Arg Ser His Asp Gly Asp Arg Arg Gly Pro 1075  
 Trp Trp Asp Asp Trp Glu Arg Asp Gln Asp Met Asp Glu Asp Tyr 1080  
 Asn Arg Glu Met Glu Arg Asp Met Asp Arg Asp Val Asp Arg Ile 1085  
 Ser Arg Pro Met Asp Met Tyr Asp Arg Ser Leu Asp Asn Glu Trp 1090  
 Asp Arg Asp Tyr Gly Arg Pro Leu Asp Glu Gln Glu Ser Gln Phe 1095  
 1310 1315 1320

Arg Glu	Arg Asp	Ile Pro	Ser	Leu Pro	Pro Leu	Pro	Pro Leu	Pro
1325			1330			1335		
Pro Leu	Pro Pro	Leu Asp	Arg	Tyr Arg	Asp Asp	Arg	Trp Arg	Glu
1340			1345			1350		
Glu Arg	Asn Arg	Glu His	Gly	Tyr Asp	Arg Asp	Phe	Arg Asp	Arg
1355			1360			1365		
Gly Glu	Leu Arg	Ile Arg	Glu	Tyr Pro	Glu Arg	Gly	Asp Thr	Trp
1370			1375			1380		
Arg Glu	Lys Arg	Asp Tyr	Val	Pro Asp	Arg Met	Asp	Trp Glu	Arg
1385			1390			1395		
Glu Arg	Leu Ser	Asp Arg	Trp	Tyr Pro	Ser Asp	Val	Asp Arg	His
1400			1405			1410		
Ser Pro	Met Ala	Glu His	Met	Pro Ser	Ser His	His	Ser Ser	Glu
1415			1420			1425		
Met Met	Gly Ser	Asp Ala	Ser	Leu Asp	Ser Asp	Gln	Gly Leu	Gly
1430			1435			1440		
Gly Val	Met Val	Leu Ser	Gln	Arg Gln	His Glu	Ile	Ile Leu	Lys
1445			1450			1455		
Ala Ala	Gln Glu	Leu Lys	Met	Leu Arg	Glu Gln	Lys	Glu Gln	Leu
1460			1465			1470		
Gln Lys	Met Lys	Asp Phe	Gly	Ser Glu	Pro Gln	Met	Ala Asp	His
1475			1480			1485		
Leu Pro	Pro Gln	Glu Ser	Arg	Leu Gln	Asn Thr	Ser	Ser Arg	Pro
1490			1495			1500		
Gly Met	Tyr Pro	Pro Pro	Gly	Ser Tyr	Arg Pro	Pro	Pro Pro	Met
1505			1510			1515		
Gly Lys	Pro Pro	Gly Ser	Ile	Val Arg	Pro Ser	Ala	Pro Pro	Ala
1520			1525			1530		
Arg Ser	Ser Val	Pro Val	Thr	Arg Pro	Pro Val	Pro	Ile Pro	Pro
1535			1540			1545		
Pro Pro	Pro Pro	Pro Pro	Leu	Pro Pro	Pro Pro	Pro	Val Ile	Lys
1550			1555			1560		
Pro Gln	Thr Ser	Ala Val	Glu	Gln Glu	Arg Trp	Asp	Glu Asp	Ser
1565			1570			1575		
Phe Tyr	Gly Leu	Trp Asp	Thr	Asn Asp	Glu Gln	Gly	Leu Asn	Ser
1580			1585			1590		
Glu Phe	Lys Ser	Glu Thr	Ala	Ala Ile	Pro Ser	Ala	Pro Val	Leu
1595			1600			1605		
Pro Pro	Pro Pro	Val His	Ser	Ser Ile	Pro Pro	Pro	Gly Pro	Val
1610			1615			1620		
Pro Met	Gly Met	Pro Pro	Met	Ser Lys	Pro Pro	Pro	Val Gln	Gln
1625			1630			1635		
Thr Val	Asp Tyr	Gly His	Gly	Arg Asp	Ile Ser	Thr	Asn Lys	Val
1640			1645			1650		
Glu Gln	Ile Pro	Tyr Gly	Glu	Arg Ile	Thr Leu	Arg	Pro Asp	Pro
1655			1660			1665		
Leu Pro	Glu Arg	Ser Thr	Phe	Glu Thr	Glu His	Ala	Gly Gln	Arg
1670			1675			1680		
Asp Arg	Tyr Asp	Arg Glu	Arg	Asp Arg	Glu Pro	Tyr	Phe Asp	Arg
1685			1690			1695		
Gln Ser	Asn Val	Ile Ala	Asp	His Arg	Asp Phe	Lys	Arg Asp	Arg
1700			1705			1710		
Glu Thr	His Arg	Asp Arg	Asp	Arg Asp	Arg Gly	Val	Ile Asp	Tyr
1715			1720			1725		
Asp Arg	Asp Arg	Phe Asp	Arg	Glu Arg	Arg Pro	Arg	Asp Asp	Arg
1730			1735			1740		
Ala Gln	Ser Tyr	Arg Asp	Lys	Lys Asp	His Ser	Ser	Ser Arg	Arg
1745			1750			1755		
Gly Gly	Phe Asp	Arg Pro	Ser	Tyr Asp	Arg Lys	Ser	Asp Arg	Pro
1760			1765			1770		
Val Tyr	Glu Gly	Pro Ser	Met	Phe Gly	Gly Glu	Arg	Arg Thr	Tyr
1775			1780			1785		
Pro Glu	Glu Arg	Met Pro	Leu	Pro Ala	Pro Ser	Leu	Ser His	Gln
1790			1795			1800		
Pro Pro	Pro Ala	Pro Arg	Val	Glu Lys	Lys Pro	Glu	Ser Lys	Asn
1805			1810			1815		
Val Asp	Asp Ile	Leu Lys	Pro	Pro Gly	Arg Glu	Ser	Arg Pro	Glu
1820			1825			1830		
Arg Ile	Val Val	Ile Met	Arg	Gly Leu	Pro Gly	Ser	Gly Lys	Thr

1835	1840	1845
His Val Ala Lys Leu Ile	Arg Asp Lys Glu Val	Glu Phe Gly Gly
1850	1855	1860
Pro Ala Pro Arg Val Leu	Ser Leu Asp Asp Tyr	Phe Ile Thr Glu
1865	1870	1875
Val Glu Lys Glu Glu Lys	Asp Pro Asp Ser Gly	Lys Lys Val Lys
1880	1885	1890
Lys Lys Val Met Glu Tyr	Glu Tyr Glu Ala Glu	Met Glu Glu Thr
1895	1900	1905
Tyr Arg Thr Ser Met Phe	Lys Thr Phe Lys Lys	Thr Leu Asp Asp
1910	1915	1920
Gly Phe Phe Pro Phe Ile	Ile Leu Asp Ala Ile	Asn Asp Arg Val
1925	1930	1935
Arg His Phe Asp Gln Phe	Trp Ser Ala Ala Lys	Thr Lys Gly Phe
1940	1945	1950
Glu Val Tyr Leu Ala Glu	Met Ser Ala Asp Asn	Gln Thr Cys Gly
1955	1960	1965
Lys Arg Asn Ile His Gly	Arg Lys Leu Lys Glu	Ile Asn Lys Met
1970	1975	1980
Ala Asp His Trp Glu Thr	Ala Pro Arg His Met	Met Arg Leu Asp
1985	1990	1995
Ile Arg Ser Leu Leu Gln	Asp Ala Ala Ile Glu	Glu Val Glu Met
2000	2005	2010
Glu Asp Phe Asp Ala Asn	Ile Glu Glu Gln Lys	Glu Glu Lys Lys
2015	2020	2025
Asp Ala Glu Glu Glu Glu	Ser Glu Leu Gly Tyr	Ile Pro Lys Ser
2030	2035	2040
Lys Trp Glu Met Asp Thr	Ser Glu Ala Lys Leu	Asp Lys Leu Asp
2045	2050	2055
Gly Leu Arg Thr Gly Thr	Lys Arg Lys Arg Asp	Trp Glu Ala Ile
2060	2065	2070
Ala Ser Arg Met Glu Asp	Tyr Leu Gln Leu Pro	Asp Asp Tyr Asp
2075	2080	2085
Thr Arg Ala Ser Glu Ala	Lys Ala Ser Arg Ser	Phe Phe Val Cys
2090	2095	2100
His Leu Ala Ser Thr Phe	Gln Phe Leu Phe Cys	Phe Tyr Cys Phe
2105	2110	2115
Ser Phe Phe Asp Ala Glu	Glu Glu Ser Glu Leu	Val Gly Asp
2120	2125	2130
Arg Pro Thr Thr Leu Asn	Ser Val Ser Leu Leu	Lys Phe Leu Lys
2135	2140	2145
Lys Val		
2150		

&lt;210&gt; 281

&lt;211&gt; 979

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

Met Ser Val Leu Gly Glu Tyr Glu Arg His Cys Asp Ser Ile Asn Ser	1	5	10	15
Asp Phe Gly Ser Glu Ser Gly Gly Cys Gly Asp Ser Ser Pro Gly Pro	20	25	30	35
Ser Ala Ser Gln Gly Pro Arg Ala Gly Gly Gly Ala Ala Glu Gln Glu	40	45	50	55
Glu Leu His Tyr Ile Pro Ile Arg Val Leu Gly Arg Gly Ala Phe Gly	60	65	70	75
Glu Ala Thr Leu Tyr Arg Arg Thr Glu Asp Asp Ser Leu Val Val Trp	80	85	90	95
Lys Glu Val Asp Leu Thr Arg Leu Ser Glu Lys Glu Arg Arg Asp Ala	100	105	110	115
Leu Asn Glu Ile Val Ile Leu Ala Leu Leu Gln His Asp Asn Ile Ile	120	125	130	135
Ala Tyr Tyr Asn His Phe Met Asp Asn Thr Thr Leu Leu Ile Glu Leu	140	145	150	155
Glu Tyr Cys Asn Gly Gly Asn Leu Tyr Asp Lys Ile Leu Arg Gln Lys	160	165	170	175
Asp Lys Leu Phe Glu Glu Glu Met Val Val Trp Tyr Leu Phe Gln Ile	180	185	190	195
145	150	155	160	165

Val Ser Ala Val Ser Cys Ile His Lys Ala Gly Ile Leu His Arg Asp  
 165 170 175  
 Ile Lys Thr Leu Asn Ile Phe Leu Thr Lys Ala Asn Leu Ile Lys Leu  
 180 185 190  
 Gly Asp Tyr Gly Leu Ala Lys Lys Leu Asn Ser Glu Tyr Ser Met Ala  
 195 200 205  
 Glu Thr Leu Val Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Cys Gln  
 210 215 220  
 Gly Val Lys Tyr Asn Phe Lys Ser Asp Ile Trp Ala Val Gly Cys Val  
 225 230 235 240  
 Ile Phe Glu Leu Leu Thr Leu Lys Arg Thr Phe Asp Ala Thr Asn Pro  
 245 250 255  
 Leu Asn Leu Cys Val Lys Ile Val Gln Gly Ile Arg Ala Met Glu Val  
 260 265 270  
 Asp Ser Ser Gln Tyr Ser Leu Glu Leu Ile Gln Met Val His Ser Cys  
 275 280 285  
 Leu Asp Gln Asp Pro Glu Gln Arg Pro Thr Ala Asp Glu Leu Leu Asp  
 290 295 300  
 Arg Pro Leu Leu Arg Lys Arg Arg Arg Glu Met Glu Glu Lys Val Thr  
 305 310 315 320  
 Leu Leu Asn Ala Pro Thr Lys Arg Pro Arg Ser Ser Thr Val Thr Glu  
 325 330 335  
 Ala Pro Ile Ala Val Val Thr Ser Arg Thr Ser Glu Val Tyr Ile Trp  
 340 345 350  
 Gly Gly Gly Lys Ser Thr Pro Gln Lys Leu Asp Val Ile Lys Ser Gly  
 355 360 365  
 Cys Ser Ala Arg Gln Val Cys Ala Gly Asn Thr His Phe Ala Val Val  
 370 375 380  
 Thr Val Glu Lys Glu Leu Tyr Thr Trp Val Asn Met Gln Gly Gly Thr  
 385 390 395 400  
 Lys Leu His Gly Gln Leu Gly His Gly Asp Lys Ala Ser Tyr Arg Gln  
 405 410 415  
 Pro Lys His Val Glu Lys Leu Gln Gly Lys Ala Ile His Gln Val Ser  
 420 425 430  
 Cys Gly Asp Asp Phe Thr Val Cys Val Thr Asp Glu Gly Gln Leu Tyr  
 435 440 445  
 Ala Phe Gly Ser Asp Tyr Tyr Gly Cys Met Gly Val Asp Lys Val Ala  
 450 455 460  
 Gly Pro Glu Val Leu Glu Pro Met Gln Leu Asn Phe Phe Leu Ser Asn  
 465 470 475 480  
 Pro Val Glu Gln Val Ser Cys Gly Asp Asn His Val Val Val Leu Thr  
 485 490 495  
 Arg Asn Lys Glu Val Tyr Ser Trp Gly Cys Gly Glu Tyr Gly Arg Leu  
 500 505 510  
 Gly Leu Asp Ser Glu Glu Asp Tyr Thr Pro Gln Lys Val Asp Val  
 515 520 525  
 Pro Lys Ala Leu Ile Ile Val Ala Val Gln Cys Gly Cys Asp Gly Thr  
 530 535 540  
 Phe Leu Leu Thr Gln Ser Gly Lys Val Leu Ala Cys Gly Leu Asn Glu  
 545 550 555 560  
 Phe Asn Lys Leu Gly Leu Asn Gln Cys Met Ser Gly Ile Ile Asn His  
 565 570 575  
 Glu Ala Tyr His Glu Val Pro Tyr Thr Thr Ser Phe Thr Leu Ala Lys  
 580 585 590  
 Gln Leu Ser Phe Tyr Lys Ile Arg Thr Ile Ala Pro Gly Lys Thr His  
 595 600 605  
 Thr Ala Ala Ile Asp Glu Arg Gly Arg Leu Leu Thr Phe Gly Cys Asn  
 610 615 620  
 Lys Cys Gly Gln Leu Gly Val Gly Asn Tyr Lys Lys Arg Leu Gly Ile  
 625 630 635 640  
 Asn Leu Leu Gly Gly Pro Leu Gly Gly Lys Gln Val Ile Arg Val Ser  
 645 650 655  
 Cys Gly Asp Glu Phe Thr Ile Ala Ala Thr Asp Asp Asn His Ile Phe  
 660 665 670  
 Ala Trp Gly Asn Gly Gly Asn Gly Arg Leu Ala Met Thr Pro Thr Glu  
 675 680 685  
 Arg Pro His Gly Ser Asp Ile Cys Thr Ser Trp Pro Arg Pro Ile Phe  
 690 695 700  
 Gly Ser Leu His His Val Pro Asp Leu Ser Cys Arg Gly Trp His Thr

705  
 Ile Leu Ile Val Glu Lys Val Leu Asn Ser Lys Thr Ile Arg Ser Asn  
 720  
 Ser Ser Gly Leu Ser Ile Gly Thr Val Phe Gln Ser Ser Ser Pro Gly  
 735  
 Gly Gly Gly Gly Gly Gly Gly Glu Glu Glu Asp Ser Gln Gln Glu  
 750  
 Ser Glu Thr Pro Asp Pro Ser Gly Gly Phe Arg Gly Thr Met Glu Ala  
 765  
 Asp Arg Gly Met Glu Gly Leu Ile Ser Pro Thr Glu Ala Met Gly Asn  
 780  
 785 Ser Asn Gly Ala Ser Ser Ser Cys Pro Gly Trp Leu Arg Lys Glu Ala  
 800  
 Glu Asn Ala Glu Phe Ile Pro Met Pro Asp Ser Pro Ser Pro Leu Ser  
 815  
 Ala Ala Phe Ser Glu Ser Glu Lys Asp Thr Leu Pro Tyr Glu Glu Leu  
 830  
 Gln Gly Leu Lys Val Ala Ser Glu Ala Pro Leu Glu His Lys Pro Gln  
 845  
 Val Glu Ala Ser Ser Pro Arg Leu Asn Pro Ala Val Thr Cys Ala Gly  
 860  
 865 Lys Gly Thr Pro Leu Thr Pro Pro Ala Cys Ala Cys Ser Ser Leu Gln  
 880  
 Val Glu Val Glu Arg Leu Gln Gly Leu Val Leu Lys Cys Leu Ala Glu  
 895  
 Gln Gln Lys Leu Gln Gln Glu Asn Leu Gln Ile Phe Thr Gln Leu Gln  
 910  
 Lys Leu Asn Lys Lys Leu Glu Gly Gly Gln Gln Val Gly Met His Ser  
 925  
 Lys Gly Thr Gln Thr Ala Lys Glu Glu Met Glu Met Asp Pro Lys Pro  
 940  
 945 Asp Leu Asp Ser Asp Ser Gly Cys Leu Leu Gly Thr Asp Ser Cys Arg  
 960  
 Pro Ser Leu 965 970 975

<210> 282  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens  
 <400> 282

Met Arg Phe Phe Leu Phe Phe Phe Phe Phe Leu Arg Trp Ser Leu Val  
 1 5 10 15  
 Ser Pro Arg Leu Glu Cys Ser Gly Leu Val Leu Ala His Cys Asn Leu  
 20 25 30  
 His Leu Leu Gly Ser Arg Glu Ser Pro Ala Ser Ala Ser Arg Val Ala  
 35 40 45  
 Gly Ile Thr Gly Val Ser His His Thr Gln Thr His Leu Met Ser Phe  
 50 55 60  
 Asp Val Lys Ala Cys Asn Ser Asn Pro Tyr Val Trp Asn Ile Cys Ile  
 65 70 75 80  
 Thr Ser Glu Phe Phe His Leu Val Asn Ser Cys Thr Ser Leu Ser Cys  
 85 90 95  
 Pro Phe Phe Pro Pro Leu Ala Val Ser Tyr Cys  
 100 105

<210> 283  
 <211> 533  
 <212> PRT  
 <213> Homo sapiens  
 <400> 283

Met Thr Lys Lys Arg Ile Ala Val Ile Gly Gly Gly Val Ser Gly Leu  
 1 5 10 15  
 Ser Ser Ile Lys Cys Cys Val Glu Glu Gly Leu Glu Pro Val Cys Phe  
 20 25 30  
 Glu Arg Thr Asp Asp Ile Gly Gly Leu Trp Arg Phe Gln Glu Asn Pro  
 35 40 45  
 Glu Glu Gly Arg Ala Ser Ile Tyr Lys Ser Val Ile Ile Asn Thr Ser  
 50 55 60



Lys Glu Met Met Cys Phe Ser Asp Tyr Pro Ile Pro Asp His Tyr Pro  
 65 70 75 80  
 Asn Phe Met His Asn Ala Gln Val Leu Glu Tyr Phe Arg Met Tyr Ala  
 85 90 95  
 Lys Glu Phe Asp Leu Leu Lys Tyr Ile Arg Phe Lys Thr Thr Val Cys  
 100 105 110  
 Ser Val Lys Lys Gln Pro Asp Phe Ala Thr Ser Gly Gln Trp Glu Val  
 115 120 125  
 Val Thr Glu Ser Glu Gly Lys Lys Glu Met Asn Val Phe Asp Gly Val  
 130 135 140  
 Met Val Cys Thr Gly His His Thr Asn Ala His Leu Pro Leu Glu Ser  
 145 150 155 160  
 Phe Pro Gly Ile Glu Lys Phe Lys Gly Gln Tyr Phe His Ser Arg Asp  
 165 170 175  
 Tyr Lys Asn Pro Glu Gly Phe Thr Gly Lys Arg Val Ile Ile Ile Gly  
 180 185 190  
 Ile Gly Asn Ser Gly Gly Asp Leu Ala Val Glu Ile Ser Gln Thr Ala  
 195 200 205  
 Lys Gln Val Phe Leu Ser Thr Arg Arg Gly Ala Trp Ile Leu Asn Arg  
 210 215 220  
 Val Gly Asp Tyr Gly Tyr Pro Ala Asp Val Leu Phe Ser Ser Arg Leu  
 225 230 235 240  
 Thr His Phe Ile Trp Lys Ile Cys Gly Gln Ser Leu Ala Asn Lys Tyr  
 245 250 255  
 Leu Glu Lys Lys Ile Asn Gln Arg Phe Asp His Glu Met Phe Gly Leu  
 260 265 270  
 Lys Pro Lys His Arg Ala Leu Ser Gly Leu Val Lys Val Lys Gly Asn Val  
 275 280 285  
 Leu Pro Asn Arg Ile Ile Ser Gly Leu Val Lys Val Lys Gly Asn Val  
 290 295 300  
 Lys Glu Phe Thr Glu Thr Ala Ala Ile Phe Glu Asp Gly Ser Arg Glu  
 305 310 315 320  
 Asp Asp Ile Asp Ala Val Ile Phe Ala Thr Gly Tyr Ser Phe Asp Phe  
 325 330 335  
 Pro Phe Leu Glu Asp Ser Val Lys Val Val Lys Asn Lys Ile Pro Leu  
 340 345 350  
 Tyr Lys Lys Val Phe Pro Pro Asn Leu Glu Arg Pro Thr Leu Ala Ile  
 355 360 365  
 Ile Gly Leu Ile Gln Pro Leu Gly Ala Ile Met Pro Ile Ser Glu Leu  
 370 375 380  
 Gln Gly Arg Trp Ala Thr Gln Val Phe Lys Gly Leu Lys Thr Leu Pro  
 385 390 395 400  
 Ser Gln Ser Glu Met Met Ala Glu Ile Ser Lys Ala Gln Glu Glu Ile  
 405 410 415  
 Asp Lys Arg Tyr Val Glu Ser Gln Arg His Thr Ile Gln Gly Asp Tyr  
 420 425 430  
 Ile Asp Thr Met Glu Glu Leu Ala Asp Leu Val Gly Val Arg Pro Asn  
 435 440 445  
 Leu Leu Ser Leu Ala Phe Thr Asp Pro Lys Leu Ala Leu His Leu Leu  
 450 455 460  
 Leu Gly Pro Cys Thr Pro Ile His Tyr Arg Val Gln Gly Pro Gly Lys  
 465 470 475 480  
 Trp Asp Gly Ala Arg Lys Ala Ile Leu Thr Thr Asp Asp Arg Ile Arg  
 485 490 495  
 Lys Pro Leu Met Thr Arg Val Val Glu Arg Ser Ser Ser Met Thr Ser  
 500 505 510  
 Thr Met Thr Ile Gly Lys Phe Met Leu Ala Leu Ala Phe Phe Ala Ile  
 515 520 525  
 Ile Ile Ala Tyr Phe  
 530

&lt;210&gt; 284

&lt;211&gt; 757

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Met Val Pro Asp Thr Ala Cys Val Leu Leu Leu Thr Leu Ala Ala Leu  
 1 5 10 15  
 Gly Ala Ser Gly Gln Gly Gln Ser Pro Leu Gly Ser Asp Leu Gly Pro

[illegible]

Phe Asn Gly Val Asp Phe Glu Gly Thr Phe His Val Asn Thr Val Thr  
 580 585 590  
 Asp Asp Asp Tyr Ala Gly Phe Ile Phe Gly Tyr Gln Asp Ser Ser Ser  
 595 600 605  
 Phe Tyr Val Val Met Trp Lys Gln Met Glu Gln Thr Tyr Trp Gln Ala  
 610 615 620  
 Asn Pro Phe Arg Ala Val Ala Glu Pro Gly Ile Gln Leu Lys Ala Val  
 625 630 635 640  
 Lys Ser Ser Thr Gly Pro Gly Glu Gln Leu Arg Asn Ala Leu Trp His  
 645 650 655  
 Thr Gly Asp Thr Glu Ser Gln Val Arg Leu Leu Trp Lys Asp Pro Arg  
 660 665 670  
 Asn Val Gly Trp Lys Asp Lys Lys Ser Tyr Arg Trp Phe Leu Gln His  
 675 680 685  
 Arg Pro Gln Val Gly Tyr Ile Arg Val Arg Phe Tyr Glu Gly Pro Glu  
 690 695 700  
 Leu Val Ala Asp Ser Asn Val Val Leu Asp Thr Met Arg Gly Gly  
 705 710 715 720  
 Arg Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp Ala Asn  
 725 730 735  
 Leu Arg Tyr Arg Cys Asn Asp Thr Ile Pro Glu Asp Tyr Glu Thr His  
 740 745 750  
 Gln Leu Arg Gln Ala  
 755

<210> 285  
 <211> 3396  
 <212> PRT  
 <213> Homo sapiens  
 <400> 285

Met Phe Ile Asn Ile Lys Ser Ile Leu Trp Met Cys Ser Thr Leu Ile  
 1 5 10 15  
 Val Thr His Ala Leu His Lys Val Lys Val Gly Lys Ser Pro Pro Val  
 20 25 30  
 Arg Gly Ser Leu Ser Gly Lys Val Ser Leu Pro Cys His Phe Ser Thr  
 35 40 45  
 Met Pro Thr Leu Pro Pro Ser Tyr Asn Thr Ser Glu Phe Leu Arg Ile  
 50 55 60  
 Lys Trp Ser Lys Ile Glu Val Asp Lys Asn Gly Lys Asp Leu Lys Glu  
 65 70 75 80  
 Thr Thr Val Leu Val Ala Gln Asn Gly Asn Ile Lys Ile Gly Gln Asp  
 85 90 95  
 Tyr Lys Gly Arg Val Ser Val Pro Thr His Pro Glu Ala Val Gly Asp  
 100 105 110  
 Ala Ser Leu Thr Val Val Lys Leu Ala Ser Asp Ala Gly Leu Tyr  
 115 120 125  
 Arg Cys Asp Val Met Tyr Gly Ile Glu Asp Thr Gln Asp Thr Val Ser  
 130 135 140  
 Leu Thr Val Asp Gly Val Val Phe His Tyr Arg Ala Ala Thr Ser Arg  
 145 150 155 160  
 Tyr Thr Leu Asn Phe Glu Ala Ala Gln Lys Ala Cys Leu Asp Val Gly  
 165 170 175  
 Ala Val Ile Ala Thr Pro Glu Gln Leu Phe Ala Ala Tyr Glu Asp Gly  
 180 185 190  
 Phe Glu Gln Cys Asp Ala Gly Trp Leu Ala Asp Gln Thr Val Arg Tyr  
 195 200 205  
 Pro Ile Arg Ala Pro Arg Val Gly Cys Tyr Gly Asp Lys Met Gly Lys  
 210 215 220  
 Ala Gly Val Arg Thr Tyr Gly Phe Arg Ser Pro Gln Glu Thr Tyr Asp  
 225 230 235 240  
 Val Tyr Cys Tyr Val Asp His Leu Asp Gly Asp Val Phe His Leu Thr  
 245 250 255  
 Val Pro Ser Lys Phe Thr Phe Glu Glu Ala Ala Lys Glu Cys Glu Asn  
 260 265 270  
 Gln Asp Ala Arg Leu Ala Thr Val Gly Glu Leu Gln Ala Ala Trp Arg  
 275 280 285  
 Asn Gly Phe Asp Gln Cys Asp Tyr Gly Trp Leu Ser Asp Ala Ser Val  
 290 295 300  
 Arg His Pro Val Thr Val Ala Arg Ala Gln Cys Gly Gly Gly Leu Leu

305 310 315 320  
 Gly Val Arg Thr Leu Tyr Arg Phe Glu Asn Gln Thr Gly Phe Pro Pro  
 325 330 335  
 Pro Asp Ser Arg Phe Asp Ala Tyr Cys Phe Lys Pro Lys Glu Ala Thr  
 340 345 350  
 Thr Ile Asp Leu Ser Ile Leu Ala Glu Thr Ala Ser Pro Ser Leu Ser  
 355 360 365  
 Lys Glu Pro Gln Met Val Ser Asp Arg Thr Thr Pro Ile Ile Pro Leu  
 370 375 380  
 Val Asp Glu Leu Pro Val Ile Pro Thr Glu Phe Pro Pro Val Gly Asn  
 385 390 395 400  
 Ile Val Ser Phe Glu Gln Lys Ala Thr Val Gln Pro Gln Ala Ile Thr  
 405 410 415  
 Asp Ser Leu Ala Thr Lys Leu Pro Thr Pro Thr Gly Ser Thr Lys Lys  
 420 425 430  
 Pro Trp Asp Met Asp Asp Tyr Ser Pro Ser Ala Ser Gly Pro Leu Gly  
 435 440 445  
 Lys Leu Asp Ile Ser Glu Ile Lys Glu Glu Val Leu Gln Ser Thr Thr  
 450 455 460  
 Gly Val Ser His Tyr Ala Thr Asp Ser Trp Asp Gly Val Val Glu Asp  
 465 470 475 480  
 Lys Gln Thr Gln Glu Ser Val Thr Gln Ile Glu Gln Ile Glu Val Gly  
 485 490 495  
 Pro Leu Val Thr Ser Met Glu Ile Leu Lys His Ile Pro Ser Lys Glu  
 500 505 510  
 Phe Pro Val Thr Glu Thr Pro Leu Val Thr Ala Arg Met Ile Leu Glu  
 515 520 525  
 Ser Lys Thr Glu Lys Lys Met Val Ser Thr Val Ser Glu Leu Val Thr  
 530 535 540  
 Thr Gly His Tyr Gly Phe Thr Leu Gly Glu Glu Asp Asp Glu Asp Arg  
 545 550 555 560  
 Thr Leu Thr Val Gly Ser Asp Glu Ser Thr Leu Ile Phe Asp Gln Ile  
 565 570 575  
 Pro Glu Val Ile Thr Val Ser Lys Thr Ser Glu Asp Thr Ile His Thr  
 580 585 590  
 His Leu Glu Asp Leu Glu Ser Val Ser Ala Ser Thr Thr Val Ser Pro  
 595 600 605  
 Leu Ile Met Pro Asp Asn Asn Gly Ser Ser Met Asp Asp Trp Glu Glu  
 610 615 620  
 Arg Gln Thr Ser Gly Arg Ile Thr Glu Glu Phe Leu Gly Lys Tyr Leu  
 625 630 635 640  
 Ser Thr Thr Pro Phe Pro Ser Gln His Arg Thr Glu Ile Glu Leu Phe  
 645 650 655  
 Pro Tyr Ser Gly Asp Lys Ile Leu Val Glu Gly Ile Ser Thr Val Ile  
 660 665 670  
 Tyr Pro Ser Leu Gln Thr Glu Met Thr His Arg Arg Glu Arg Thr Glu  
 675 680 685  
 Thr Leu Ile Pro Glu Met Arg Thr Asp Thr Tyr Thr Asp Glu Ile Gln  
 690 695 700  
 Glu Glu Ile Thr Lys Ser Pro Phe Met Gly Lys Thr Glu Glu Glu Val  
 705 710 715 720  
 Phe Ser Gly Met Lys Leu Ser Thr Ser Leu Ser Glu Pro Ile His Val  
 725 730 735  
 Thr Glu Ser Ser Val Glu Met Thr Lys Ser Phe Asp Phe Pro Thr Leu  
 740 745 750  
 Ile Thr Lys Leu Ser Ala Glu Pro Thr Glu Val Arg Asp Met Glu Glu  
 755 760 765  
 Asp Phe Thr Ala Thr Pro Gly Thr Thr Lys Tyr Asp Glu Asn Ile Thr  
 770 775 780  
 Thr Val Leu Leu Ala His Gly Thr Leu Ser Val Glu Ala Ala Thr Val  
 785 790 795 800  
 Ser Lys Trp Ser Trp Asp Glu Asp Asn Thr Thr Ser Lys Pro Leu Glu  
 805 810 815  
 Ser Thr Glu Pro Ser Ala Ser Ser Lys Leu Pro Pro Ala Leu Leu Thr  
 820 825 830  
 Thr Val Gly Met Asn Gly Lys Asp Lys Asp Ile Pro Ser Phe Thr Glu  
 835 840 845  
 Asp Gly Ala Asp Glu Phe Thr Leu Ile Pro Asp Ser Thr Gln Lys Gln  
 850 855 860

Leu	Glu	Glu	Val	Thr	Asp	Glu	Asp	Ile	Ala	Ala	His	Gly	Lys	Phe	Thr
865					870					875					880
Ile	Arg	Phe	Gln	Pro	Thr	Thr	Ser	Thr	Gly	Ile	Ala	Glu	Lys	Ser	Thr
				885					890						895
Leu	Arg	Asp	Ser	Thr	Thr	Glu	Glu	Lys	Val	Pro	Pro	Ile	Thr	Ser	Thr
				900				905							910
Glu	Gly	Gln	Val	Tyr	Ala	Thr	Met	Glu	Gly	Ser	Ala	Leu	Gly	Glu	Val
				915			920								925
Glu	Asp	Val	Asp	Leu	Ser	Lys	Pro	Val	Ser	Thr	Val	Pro	Gln	Phe	Ala
				930			935								940
His	Thr	Ser	Glu	Val	Glu	Gly	Leu	Ala	Phe	Val	Ser	Tyr	Ser	Ser	Thr
				945			950								960
Gln	Glu	Pro	Thr	Thr	Tyr	Val	Asp	Ser	Ser	His	Thr	Ile	Pro	Leu	Ser
				965				970							975
Val	Ile	Pro	Lys	Thr	Asp	Trp	Gly	Val	Leu	Val	Pro	Ser	Val	Pro	Ser
				980				985							990
Glu	Asp	Glu	Val	Leu	Gly	Glu	Pro	Ser	Gln	Asp	Ile	Leu	Val	Ile	Asp
				995			1000								1005
Gln	Thr	Arg	Leu	Glu	Ala	Thr	Ile	Ser	Pro	Glu	Thr	Met	Arg	Thr	
				1010			1015								1020
Thr	Lys	Ile	Thr	Glu	Gly	Thr	Thr	Gln	Glu	Glu	Phe	Pro	Trp	Lys	
				1025			1030								1035
Glu	Gln	Thr	Ala	Glu	Lys	Pro	Val	Pro	Ala	Leu	Ser	Ser	Thr	Ala	
				1040			1045								1050
Trp	Thr	Pro	Lys	Glu	Ala	Val	Thr	Pro	Leu	Asp	Glu	Gln	Glu	Gly	
				1055			1060								1065
Asp	Gly	Ser	Ala	Tyr	Thr	Val	Ser	Glu	Asp	Glu	Leu	Leu	Thr	Gly	
				1070			1075								1080
Ser	Glu	Arg	Val	Pro	Val	Leu	Glu	Thr	Thr	Pro	Val	Gly	Lys	Ile	
				1085			1090								1095
Asp	His	Ser	Val	Ser	Tyr	Pro	Pro	Gly	Ala	Val	Thr	Glu	His	Lys	
				1100			1105								1110
Val	Lys	Thr	Asp	Glu	Val	Val	Thr	Leu	Thr	Pro	Arg	Ile	Gly	Pro	
				1115			1120								1125
Lys	Val	Ser	Leu	Ser	Pro	Gly	Pro	Glu	Gln	Lys	Tyr	Glu	Thr	Glu	
				1130			1135								1140
Gly	Ser	Ser	Thr	Thr	Gly	Phe	Thr	Ser	Ser	Leu	Ser	Pro	Phe	Ser	
				1145			1150								1155
Thr	His	Ile	Thr	Gln	Leu	Met	Glu	Glu	Thr	Thr	Thr	Glu	Lys	Thr	
				1160			1165								1170
Ser	Leu	Glu	Asp	Ile	Asp	Leu	Gly	Ser	Gly	Leu	Phe	Glu	Lys	Pro	
				1175			1180								1185
Lys	Ala	Thr	Glu	Leu	Ile	Glu	Phe	Ser	Thr	Ile	Lys	Val	Thr	Val	
				1190			1195								1200
Pro	Ser	Asp	Ile	Thr	Thr	Ala	Phe	Ser	Ser	Val	Asp	Arg	Leu	His	
				1205			1210								1215
Thr	Thr	Ser	Ala	Phe	Lys	Pro	Ser	Ser	Ala	Ile	Thr	Lys	Lys	Pro	
				1220			1225								1230
Pro	Leu	Ile	Asp	Arg	Glu	Pro	Gly	Glu	Glu	Thr	Thr	Ser	Asp	Met	
				1235			1240								1245
Val	Ile	Ile	Gly	Glu	Ser	Thr	Ser	His	Val	Pro	Pro	Thr	Thr	Leu	
				1250			1255								1260
Glu	Asp	Ile	Val	Ala	Lys	Glu	Thr	Glu	Thr	Asp	Ile	Asp	Arg	Glu	
				1265			1270								1275
Tyr	Phe	Thr	Thr	Ser	Ser	Pro	Pro	Ala	Thr	Gln	Pro	Thr	Arg	Pro	
				1280			1285								1290
Pro	Thr	Val	Glu	Asp	Lys	Glu	Ala	Phe	Gly	Pro	Gln	Ala	Leu	Ser	
				1295			1300								1305
Thr	Pro	Gln	Pro	Pro	Ala	Ser	Thr	Lys	Phe	His	Pro	Asp	Ile	Asn	
				1310			1315								1320
Val	Tyr	Ile	Ile	Glu	Val	Arg	Glu	Asn	Lys	Thr	Gly	Arg	Met	Ser	
				1325			1330								1335
Asp	Leu	Ser	Val	Ile	Gly	His	Pro	Ile	Asp	Ser	Glu	Ser	Lys	Glu	
				1340			1345								1350
Asp	Glu	Pro	Cys	Ser	Glu	Glu	Thr	Asp	Pro	Val	His	Asp	Leu	Met	
				1355			1360								1365
Ala	Glu	Ile	Leu	Pro	Glu	Phe	Pro	Asp	Ile	Ile	Glu	Ile	Asp	Leu	
				1370			1375								1380
Tyr	His	Ser	Glu	Glu	Asn	Glu	Glu	Glu	Glu	Glu	Glu	Cys	Ala	Asn	

1385	Ala Thr Asp Val Thr Thr	1390	Pro Ser Val Gln	1395	Ile Asn Gly
1400	Lys His Leu Val Thr Thr	1405	Pro Lys Asp Pro	1410	Ala Ala Glu
1415	Ala Arg Arg Gly Gln Phe	1420	Ser Val Ala Pro	1425	Gln Asn Phe
1430	Ser Asp Ser Ser Glu Ser	1435	Thr His Pro Phe	1440	Ile Ala Lys
1445	Thr Glu Leu Ser Thr Ala	1450	Gln Pro Asn Glu	1455	Thr Glu Thr
1460	Thr Glu Ser Leu Glu Val	1465	Trp Lys Pro Glu	1470	Tyr Pro Glu
1475	Thr Ser Glu His Phe Ser	1480	Gly Glu Pro Asp	1485	Phe Pro Thr
1490	Val Pro Phe His Glu Glu	1495	Glu Ser Gly Thr	1500	Lys Lys Gly
1505	Ala Glu Ser Val Thr Glu	1510	Asp Thr Glu Val	1515	His Gln Ala
1520	His Glu His Thr Glu Pro	1525	Ser Leu Phe Pro	1530	Glu Ser Ser
1535	Gly Glu Ile Ala Ile Asp	1540	Glu Ser Gln Lys	1545	Ile Ala Phe Ala
1550	Arg Ala Thr Glu Val Thr	1555	Gly Glu Glu Val	1560	Lys Ser Thr
1565	Ser Val Thr Tyr Thr Pro	1570	Ile Val Pro Ser	1575	Ala Ser Ala
1580	Tyr Val Ser Glu Glu Glu	1585	Val Thr Leu Ile	1590	Asn Pro Trp
1595	Pro Asp Asp Leu Leu Ser	1600	Lys Glu Ser Trp	1605	Glu Ala Thr
1610	Pro Arg Gln Val Val Glu	1615	Ser Gly Ser Ser	1620	Ile Pro Ile
1625	Thr Glu Gly Ser Gly Glu	1630	Glu Glu Asp Glu	1635	Thr Met Phe
1640	Thr Met Val Thr Asp Leu	1645	Gln Arg Asn Thr	1650	Asp Thr Leu
1655	Ile Thr Leu Asp Thr Ser	1660	Ile Ile Thr Glu	1665	Phe Phe Glu
1670	Val Pro Ala Thr Thr Ile	1675	Pro Val Ser Glu	1680	Pro Ser Ala
1685	Lys Val Val Pro Thr Lys	1690	Val Ser Glu Thr	1695	Thr Ser Glu
1700	Trp Ile Ser Ser Thr Thr	1705	Glu Glu Lys Lys	1710	Lys Glu Glu
1715	Glu Gly Thr Thr Gly Thr	1720	Ser Thr Phe Glu	1725	Tyr Ser Ser
1730	Thr Gln Arg Ser Asp Gln	1735	Ile Leu Pro Phe	1740	Leu Glu Ser
1745	Pro Asn Val Ala Thr Ser	1750	Asp Ser Gly Thr	1755	Lys Ser Phe
1760	Met Ser Leu Thr Thr Pro	1765	Gln Ser Glu Arg	1770	Met Thr Asp
1775	Ser Thr Pro Val Phe Thr	1780	Thr Asn Thr Leu	1785	Asn Leu Gly
1790	Ala Gln Thr Thr Glu His	1795	Ser Ile His Gln	1800	Gly Val Gln
1805	Glu Gly Leu Thr Thr Leu	1810	Arg Ser Pro Ala	1815	Val Phe Met
1820	Glu Gln Gly Ser Gly Glu	1825	Ala Ala Asp Pro	1830	Thr Thr Thr
1835	Val Ser Ser Phe Ser Leu	1840	Val Glu Tyr Ala	1845	Gln Ala Glu
1850	Lys Glu Val Ala Gly Thr	1855	Ser Pro His Val	1860	Thr Thr Phe
1865	Ser Thr Glu Pro Thr Gly	1870	Val Leu Ser Thr	1875	Met Asp Arg
1880	Val Val Ala Glu Asn Ile	1885	Gln Thr Ser Arg	1890	Ile Val Ile
1895		1900		1905	

Ser	Glu	Arg	Leu	Gly	Glu	Pro	Asn	Tyr	Gly	Ala	Glu	Ile	Arg	Gly
1910						1915					1920			
Phe	Ser	Thr	Gly	Phe	Pro	Leu	Glu	Glu	Asp	Phe	Ser	Gly	Asp	Phe
1925						1930					1935			
Arg	Glu	Tyr	Ser	Thr	Val	Ser	His	Pro	Ile	Ala	Lys	Glu	Glu	Thr
1940						1945					1950			
Val	Met	Met	Glu	Gly	Ser	Gly	Asp	Ala	Ala	Phe	Arg	Asp	Thr	Gln
1955						1960					1965			
Thr	Ser	Pro	Ser	Thr	Val	Pro	Thr	Ser	Val	His	Ile	Ser	His	Ile
1970						1975					1980			
Ser	Asp	Ser	Glu	Gly	Pro	Ser	Ser	Thr	Met	Val	Ser	Thr	Ser	Ala
1985						1990					1995			
Phe	Pro	Trp	Glu	Glu	Phe	Thr	Ser	Ser	Ala	Glu	Gly	Ser	Gly	Glu
2000						2005					2010			
Gln	Leu	Val	Thr	Val	Ser	Ser	Ser	Val	Val	Pro	Val	Leu	Pro	Ser
2015						2020					2025			
Ala	Val	Gln	Lys	Phe	Ser	Gly	Thr	Ala	Ser	Ser	Ile	Ile	Asp	Glu
2030						2035					2040			
Gly	Leu	Gly	Glu	Val	Gly	Thr	Val	Asn	Glu	Ile	Asp	Arg	Arg	Ser
2045						2050					2055			
Thr	Ile	Leu	Pro	Thr	Ala	Glu	Val	Glu	Gly	Thr	Lys	Ala	Pro	Val
2060						2065					2070			
Glu	Lys	Glu	Glu	Val	Lys	Val	Ser	Gly	Thr	Val	Ser	Thr	Asn	Phe
2075						2080					2085			
Pro	Gln	Thr	Ile	Glu	Pro	Ala	Lys	Leu	Trp	Ser	Arg	Gln	Glu	Val
2090						2095					2100			
Asn	Pro	Val	Arg	Gln	Glu	Ile	Glu	Ser	Glu	Thr	Thr	Ser	Glu	Glu
2105						2110					2115			
Gln	Ile	Gln	Glu	Glu	Lys	Ser	Phe	Glu	Ser	Pro	Gln	Asn	Ser	Pro
2120						2125					2130			
Ala	Thr	Glu	Gln	Thr	Ile	Phe	Asp	Ser	Gln	Thr	Phe	Thr	Glu	Thr
2135						2140					2145			
Glu	Leu	Lys	Thr	Thr	Asp	Tyr	Ser	Val	Leu	Thr	Thr	Lys	Lys	Thr
2150						2155					2160			
Tyr	Ser	Asp	Asp	Lys	Glu	Met	Lys	Glu	Glu	Asp	Thr	Ser	Leu	Val
2165						2170					2175			
Asn	Met	Ser	Thr	Pro	Asp	Pro	Asp	Ala	Asn	Gly	Leu	Glu	Ser	Tyr
2180						2185					2190			
Thr	Thr	Leu	Pro	Glu	Ala	Thr	Glu	Lys	Ser	His	Phe	Phe	Leu	Ala
2195						2200					2205			
Thr	Ala	Leu	Val	Thr	Glu	Ser	Ile	Pro	Ala	Glu	His	Val	Val	Thr
2210						2215					2220			
Asp	Ser	Pro	Ile	Lys	Lys	Glu	Glu	Ser	Thr	Lys	His	Phe	Pro	Lys
2225						2230					2235			
Gly	Met	Arg	Pro	Thr	Ile	Gln	Glu	Ser	Asp	Thr	Glu	Leu	Leu	Phe
2240						2245					2250			
Ser	Gly	Leu	Gly	Ser	Gly	Glu	Glu	Val	Leu	Pro	Thr	Leu	Pro	Thr
2255						2260					2265			
Glu	Ser	Val	Asn	Phe	Thr	Glu	Val	Glu	Gln	Ile	Asn	Asn	Thr	Leu
2270						2275					2280			
Tyr	Pro	His	Thr	Ser	Gln	Val	Glu	Ser	Thr	Ser	Ser	Asp	Lys	Ile
2285						2290					2295			
Glu	Asp	Phe	Asn	Arg	Met	Glu	Asn	Val	Ala	Lys	Glu	Val	Gly	Pro
2300						2305					2310			
Leu	Val	Ser	Gln	Thr	Asp	Ile	Phe	Glu	Gly	Ser	Gly	Ser	Val	Thr
2315						2320					2325			
Ser	Thr	Thr	Leu	Ile	Glu	Ile	Leu	Ser	Asp	Thr	Gly	Ala	Glu	Gly
2330						2335					2340			
Pro	Thr	Val	Ala	Pro	Leu	Pro	Phe	Ser	Thr	Asp	Ile	Gly	His	Pro
2345						2350					2355			
Gln	Asn	Gln	Thr	Val	Arg	Trp	Ala	Glu	Glu	Ile	Gln	Thr	Ser	Arg
2360						2365					2370			
Pro	Gln	Thr	Ile	Thr	Glu	Gln	Asp	Ser	Asn	Lys	Asn	Ser	Ser	Thr
2375						2380					2385			
Ala	Glu	Ile	Asn	Glu	Thr	Thr	Thr	Ser	Ser	Thr	Asp	Phe	Leu	Ala
2390						2395					2400			
Arg	Ala	Tyr	Gly	Phe	Glu	Met	Ala	Lys	Glu	Phe	Val	Thr	Ser	Ala
2405						2410					2415			
Pro	Lys	Pro	Ser	Asp	Leu	Tyr	Tyr	Glu	Pro	Ser	Gly	Glu	Gly	Ser

2420	Gly Glu Val Asp Ile Val	2425	Ser Phe His Thr	2430	Ser Ala Thr Thr
2435	Gln Ala Thr Arg Gln Glu	2440	Ser Thr Thr Phe	2445	Val Ser Asp Gly
2450	Ser Leu Glu Lys His Pro	2455	Glu Val Pro Ser Ala	2460	Lys Ala Val Thr
2465	Ala Asp Gly Phe Pro Thr	2470	Ser Val Met Leu	2475	Pro Leu His Ser
2480	Glu Gln Asn Lys Ser Ser	2485	Pro Asp Pro Thr Ser	2490	Thr Leu Ser Asn
2495	Thr Val Ser Tyr Glu Arg	2500	Thr Asp Gly Ser	2505	Phe Gln Asp Arg
2510	Phe Arg Glu Phe Glu Asp	2515	Thr Leu Lys Pro	2520	Asn Arg Lys Lys
2525	Pro Thr Glu Asn Ile Ile	2530	Ile Asp Leu Asp Lys	2535	Glu Asp Lys Asp
2540	Leu Ile Leu Thr Ile Thr	2545	Ser Thr Ile Leu	2550	Glu Ile Leu Pro
2555	Glu Leu Thr Ser Asp Lys	2560	Asn Thr Ile Ile Asp	2565	Ile Asp His Thr
2570	Lys Pro Val Tyr Glu Asp	2575	Ile Leu Gly Met Gln	2580	Thr Asp Ile Asp
2585	Thr Glu Val Pro Ser Glu	2590	Pro His Asp Ser Asn	2595	Asp Glu Ser Asn
2600	Asp Asp Ser Thr Gln Val	2605	Gln Glu Ile Tyr Glu	2610	Ala Ala Val Asn
2615	Leu Ser Leu Thr Glu Glu	2620	Thr Phe Glu Gly Ser	2625	Ala Asp Val Leu
2630	Ala Ser Tyr Thr Gln Ala	2635	Thr His Asp Glu Ser	2640	Met Thr Tyr Glu
2645	Asp Arg Ser Gln Leu Asp	2650	His Met Gly Phe His	2655	Phe Thr Thr Gly
2660	Ile Pro Ala Pro Ser Thr	2665	Glu Thr Glu Leu Asp	2670	Val Leu Leu Pro
2675	Thr Ala Thr Ser Leu Pro	2680	Ile Pro Arg Lys Ser	2685	Ala Thr Val Ile
2690	Pro Glu Ile Glu Gly Ile	2695	Lys Ala Glu Ala Lys	2700	Ala Leu Asp Asp
2705	Met Phe Glu Ser Ser Thr	2710	Leu Ser Asp Gly Gln	2715	Ala Ile Ala Asp
2720	Gln Ser Glu Ile Ile Pro	2725	Thr Leu Gly Gln Phe	2730	Glu Arg Thr Gln
2735	Glu Glu Tyr Glu Asp Lys	2740	Lys His Ala Gly Pro	2745	Ser Phe Gln Pro
2750	Glu Phe Ser Ser Gly Ala	2755	Glu Glu Ala Leu Val	2760	Asp His Thr Pro
2765	Tyr Leu Ser Ile Ala Thr	2770	Thr His Leu Met Asp	2775	Gln Ser Val Thr
2780	Glu Val Pro Asp Val Met	2785	Glu Gly Ser Asn Pro	2790	Pro Tyr Tyr Thr
2795	Asp Thr Thr Leu Ala Val	2800	Ser Thr Phe Ala Lys	2805	Leu Ser Ser Gln
2810	Thr Pro Ser Ser Pro Leu	2815	Thr Ile Tyr Ser Gly	2820	Ser Glu Ala Ser
2825	Gly His Thr Glu Ile Pro	2830	Gln Pro Ser Ala Leu	2835	Pro Gly Ile Asp
2840	Val Gly Ser Ser Val Met	2845	Ser Pro Gln Asp Ser	2850	Phe Lys Glu Ile
2855	His Val Asn Ile Glu Ala	2860	Thr Phe Lys Pro Ser	2865	Ser Glu Glu Tyr
2870	Leu His Ile Thr Glu Pro	2875	Pro Ser Leu Ser Pro	2880	Asp Thr Lys Leu
2885	Glu Pro Ser Glu Asp Asp	2890	Gly Lys Pro Glu Leu	2895	Leu Glu Glu Met
2900	Glu Ala Ser Pro Thr Glu	2905	Leu Ile Ala Val Glu	2910	Gly Thr Glu Ile
2915	Leu Gln Asp Phe Gln Asn	2920	Lys Thr Asp Gly Gln	2925	Val Ser Gly Glu
2930		2935		2940	



Ala	Ile	Lys	Met	Phe	Pro	Thr	Ile	Lys	Thr	Pro	Glu	Ala	Gly	Thr
2945						2950					2955			
Val	Ile	Thr	Thr	Ala	Asp	Glu	Ile	Glu	Leu	Glu	Gly	Ala	Thr	Gln
2960						2965					2970			
Trp	Pro	His	Ser	Thr	Ser	Ala	Ser	Ala	Thr	Tyr	Gly	Val	Glu	Ala
2975						2980					2985			
Gly	Val	Val	Pro	Trp	Leu	Ser	Pro	Gln	Thr	Ser	Glu	Arg	Pro	Thr
2990						2995					3000			
Leu	Ser	Ser	Ser	Pro	Glu	Ile	Asn	Pro	Glu	Thr	Gln	Ala	Ala	Leu
3005						3010					3015			
Ile	Arg	Gly	Gln	Asp	Ser	Thr	Ile	Ala	Ala	Ser	Glu	Gln	Gln	Val
3020						3025					3030			
Ala	Ala	Arg	Ile	Leu	Asp	Ser	Asn	Asp	Gln	Ala	Thr	Val	Asn	Pro
3035						3040					3045			
Val	Glu	Phe	Asn	Thr	Glu	Val	Ala	Thr	Pro	Pro	Phe	Ser	Leu	Leu
3050						3055					3060			
Glu	Thr	Ser	Asn	Glu	Thr	Asp	Phe	Leu	Ile	Gly	Ile	Asn	Glu	Glu
3065						3070					3075			
Ser	Val	Glu	Gly	Thr	Ala	Ile	Tyr	Leu	Pro	Gly	Pro	Asp	Arg	Cys
3080						3085					3090			
Lys	Met	Asn	Pro	Cys	Leu	Asn	Gly	Gly	Thr	Cys	Tyr	Pro	Thr	Glu
3095						3100					3105			
Thr	Ser	Tyr	Val	Cys	Thr	Cys	Val	Pro	Gly	Tyr	Ser	Gly	Asp	Gln
3110						3115					3120			
Cys	Glu	Leu	Asp	Phe	Asp	Glu	Cys	His	Ser	Asn	Pro	Cys	Arg	Asn
3125						3130					3135			
Gly	Ala	Thr	Cys	Val	Asp	Gly	Phe	Asn	Thr	Phe	Arg	Cys	Leu	Cys
3140						3145					3150			
Leu	Pro	Ser	Tyr	Val	Gly	Ala	Leu	Cys	Glu	Gln	Asp	Thr	Glu	Thr
3155						3160					3165			
Cys	Asp	Tyr	Gly	Trp	His	Lys	Phe	Gln	Gly	Gln	Cys	Tyr	Lys	Tyr
3170						3175					3180			
Phe	Ala	His	Arg	Arg	Thr	Trp	Asp	Ala	Ala	Glu	Arg	Glu	Cys	Arg
3185						3190					3195			
Leu	Gln	Gly	Ala	His	Leu	Thr	Ser	Ile	Leu	Ser	His	Glu	Glu	Gln
3200						3205					3210			
Met	Phe	Val	Asn	Arg	Val	Gly	His	Asp	Tyr	Gln	Trp	Ile	Gly	Leu
3215						3220					3225			
Asn	Asp	Lys	Met	Phe	Glu	His	Asp	Phe	Arg	Trp	Thr	Asp	Gly	Ser
3230						3235					3240			
Thr	Leu	Gln	Tyr	Glu	Asn	Trp	Arg	Pro	Asn	Gln	Pro	Asp	Ser	Phe
3245						3250					3255			
Phe	Ser	Ala	Gly	Glu	Asp	Cys	Val	Val	Ile	Ile	Trp	His	Glu	Asn
3260						3265					3270			
Gly	Gln	Trp	Asn	Asp	Val	Pro	Cys	Asn	Tyr	His	Leu	Thr	Tyr	Thr
3275						3280					3285			
Cys	Lys	Lys	Gly	Thr	Val	Ala	Cys	Gly	Gln	Pro	Pro	Val	Val	Glu
3290						3295					3300			
Asn	Ala	Lys	Thr	Phe	Gly	Lys	Met	Lys	Pro	Arg	Tyr	Glu	Ile	Asn
3305						3310					3315			
Ser	Leu	Ile	Arg	Tyr	His	Cys	Lys	Asp	Gly	Phe	Ile	Gln	Arg	His
3320						3325					3330			
Leu	Pro	Thr	Ile	Arg	Cys	Leu	Gly	Asn	Gly	Arg	Trp	Ala	Ile	Pro
3335						3340					3345			
Lys	Ile	Thr	Cys	Met	Asn	Pro	Ser	Ala	Tyr	Gln	Arg	Thr	Tyr	Ser
3350						3355					3360			
Met	Lys	Tyr	Phe	Lys	Asn	Ser	Ser	Ser	Ala	Lys	Asp	Asn	Ser	Ile
3365						3370					3375			
Asn	Thr	Ser	Lys	His	Asp	His	Arg	Trp	Ser	Arg	Arg	Trp	Gln	Glu
3380						3385					3390			
Ser	Arg	Arg												
3395														

&lt;210&gt; 286

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Met Met His Leu Leu Asn Ser Gln Gly Trp Asn Glu Pro Ala Gly Pro

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1          5          10          15
Pro Glu Ser Trp Ser Gly Val Gln Ser Ser Val Phe Leu Ser Val Tyr
20          25          30
Ser Ser Leu Thr Val Pro Arg Pro Ser Gly Val Gly Ala Gly Ser Gln
35          40          45
Cys Trp Arg Arg Asn Asn Lys Ser Gln Leu Glu Pro Leu Phe Leu Lys
50          55          60
Ser Ala Tyr Cys Ala Gln Ile Leu Phe Lys His Trp Thr Trp Ile Leu
65          70          75          80
Ser Leu Ala Leu Ser Thr Pro Ala Val Gly Val Pro Pro Leu Pro Thr
85          90          95
Cys Asp Gly Val Gln Arg His Leu Leu Phe Cys Met Val Phe Asn Arg
100          105          110
Leu Gly Val Leu Phe Ile Ser Ser Asn Phe Val Gln Glu Leu Met Ala
115          120          125
Cys Leu Gly Leu Ser Ser Leu Asn Gln Arg Lys Trp Lys Pro Phe Pro
130          135          140
Cys Cys Ser Pro
145

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<210> 287
<211> 449
<212> PRT
<213> Homo sapiens
<400> 287

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Met Leu Trp Lys Leu Val Glu Asn Val Lys Tyr Glu Asp Ile Tyr Glu
1          5          10          15
Asp Arg His Asp Gly Val Pro Ser His Ser Ser Arg Leu Ser Gln Leu
20          25          30
Gly Ser Val Ser Gln Gly Pro Tyr Ser Ser Ala Pro Pro Leu Ser His
35          40          45
Thr Pro Ser Ser Asp Phe Gln Pro Pro Tyr Phe Pro Pro Tyr Gln
50          55          60
Pro Leu Pro Tyr His Gln Ser Gln Asp Pro Tyr Ser His Val Asn Asp
65          70          75          80
Pro Tyr Ser Leu Asn Pro Leu His Gln Pro Gln Gln His Pro Trp Gly
85          90          95
Gln Arg Gln Arg Gln Glu Val Gly Ser Glu Ala Gly Ser Leu Leu Pro
100          105          110
Gln Pro Arg Ala Ala Leu Pro Gln Leu Ser Gly Leu Asp Pro Arg Arg
115          120          125
Asp Tyr His Ser Val Arg Arg Pro Asp Val Leu Leu His Ser Ala His
130          135          140
His Gly Leu Asp Ala Gly Met Gly Asp Ser Leu Ser Leu His Gly Leu
145          150          155          160
Gly His Pro Gly Met Glu Asp Val Gln Ser Val Glu Asp Ala Asn Asn
165          170          175
Ser Gly Met Asn Leu Leu Asp Gln Ser Val Ile Lys Lys Val Pro Val
180          185          190
Pro Pro Lys Ser Val Thr Ser Leu Met Met Asn Lys Asp Gly Phe Leu
195          200          205
Gly Gly Met Ser Val Asn Thr Gly Glu Val Phe Cys Ser Val Pro Gly
210          215          220
Arg Leu Ser Leu Leu Ser Ser Thr Ser Lys Tyr Lys Val Thr Val Gly
225          230          235          240
Glu Val Gln Arg Arg Leu Ser Pro Pro Glu Cys Leu Asn Ala Ser Leu
245          250          255
Leu Gly Gly Val Leu Arg Arg Ala Lys Ser Lys Asn Gly Gly Arg Ser
260          265          270
Leu Arg Glu Arg Leu Glu Lys Ile Gly Leu Asn Leu Pro Ala Gly Arg
275          280          285
Arg Lys Ala Ala Asn Val Thr Leu Leu Thr Ser Leu Val Glu Gly Glu
290          295          300
Ala Val His Leu Ala Arg Asp Phe Gly Tyr Ile Cys Glu Thr Glu Phe
305          310          315          320
Pro Ala Lys Ala Val Ser Glu Tyr Leu Asn Arg Gln His Thr Asp Pro
325          330          335
Ser Asp Leu His Ser Arg Lys Asn Met Leu Leu Ala Thr Lys Gln Leu
340          345          350

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Cys Lys Glu Phe Thr Asp Leu Leu Ala Gln Asp Arg Thr Pro Ile Gly  
 355 360 365  
 Asn Ser Arg Pro Ser Pro Ile Leu Glu Pro Gly Ile Gln Ser Cys Leu  
 370 375 380  
 Thr His Phe Ser Leu Ile Thr His Gly Phe Gly Ala Pro Ala Ile Cys  
 385 390 395 400  
 Ala Ala Leu Thr Ala Leu Gln Asn Tyr Leu Thr Glu Ala Leu Lys Gly  
 405 410 415  
 Met Asp Lys Met Phe Leu Asn Asn Thr Thr Thr Asn Arg His Thr Ser  
 420 425 430  
 Gly Glu Gly Pro Gly Ser Lys Thr Gly Asp Lys Glu Glu Lys His Arg  
 435 440 445  
 Lys

<210> 288  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens  
 <400> 288

Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 1 5 10 15  
 Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu  
 20 25 30  
 Leu Leu Leu Ser Phe Phe Phe Phe Leu Ser Leu Leu Asp Thr Gln Leu  
 35 40 45  
 His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile  
 50 55 60  
 Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys  
 65 70 75 80  
 Asp Thr Phe Thr Asn Asn Ile Ile Val Tyr Phe Pro Ala Val Ile Phe  
 85 90 95  
 Val Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Leu Lys Leu Phe Pro  
 100 105 110  
 Pro Phe

<210> 289  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens  
 <400> 289

Met Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly  
 1 5 10 15  
 Val Gly Lys Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp  
 20 25 30  
 His Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val  
 35 40 45  
 Pro Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly  
 50 55 60  
 Gln Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala  
 65 70 75 80  
 Ala Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr  
 85 90 95  
 Leu Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile  
 100 105 110  
 Val Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu  
 115 120 125  
 Val Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile  
 130 135 140  
 Val Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe  
 145 150 155 160  
 Gln Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly  
 165 170 175  
 Asn Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg  
 180 185 190  
 Arg Cys Cys  
 195

<210> 290  
 <211> 270  
 <212> PRT  
 <213> Homo sapiens  
 <400> 290  
 Met Ala Ala Ser Ser Ser Gly Glu Lys Glu Lys Glu Arg Leu Gly Gly  
 1 5 10 15  
 Gly Leu Gly Val Ala Gly Gly Asn Ser Thr Arg Glu Arg Leu Leu Ser  
 20 25 30  
 Ala Leu Glu Asp Leu Glu Val Leu Ser Arg Glu Leu Ile Glu Met Leu  
 35 40 45  
 Ala Ile Ser Arg Asn Gln Lys Leu Leu Gln Ala Gly Glu Glu Asn Gln  
 50 55 60  
 Val Leu Glu Leu Leu Ile His Arg Asp Gly Glu Phe Gln Glu Leu Met  
 65 70 75 80  
 Lys Leu Ala Leu Asn Gln Gly Lys Ile His His Glu Met Gln Val Leu  
 85 90 95  
 Glu Lys Glu Val Glu Lys Arg Asp Ser Asp Ile Gln Gln Leu Gln Lys  
 100 105 110  
 Gln Leu Lys Glu Ala Glu Gln Ile Leu Ala Thr Ala Val Tyr Gln Ala  
 115 120 125  
 Lys Glu Lys Leu Lys Ser Ile Glu Lys Ala Arg Lys Gly Ala Ile Ser  
 130 135 140  
 Ser Glu Glu Ile Ile Lys Tyr Ala His Arg Ile Ser Ala Ser Asn Ala  
 145 150 155 160  
 Val Cys Ala Pro Leu Thr Trp Val Pro Gly Asp Pro Arg Arg Pro Tyr  
 165 170 175  
 Pro Thr Asp Leu Glu Met Arg Ser Gly Leu Leu Gly Gln Met Asn Asn  
 180 185 190  
 Pro Ser Thr Asn Gly Val Asn Gly His Leu Pro Gly Asp Ala Leu Ala  
 195 200 205  
 Ala Gly Arg Leu Pro Asp Val Leu Ala Pro Gln Tyr Pro Trp Gln Ser  
 210 215 220  
 Asn Asp Met Ser Met Asn Met Leu Pro Pro Asn His Ser Ser Asp Phe  
 225 230 235 240  
 Leu Leu Glu Pro Pro Gly His Asn Lys Glu Asn Glu Asp Asp Val Glu  
 245 250 255  
 Ile Met Ser Thr Asp Ser Ser Ser Ser Ser Ser Glu Ser Asp  
 260 265 270

<210> 291  
 <211> 228  
 <212> PRT  
 <213> Homo sapiens  
 <400> 291  
 Met Leu Ser Arg Cys Arg Ser Gly Leu Leu His Val Leu Gly Leu Ser  
 1 5 10 15  
 Phe Leu Leu Gln Thr Arg Arg Pro Ile Leu Leu Cys Ser Pro Arg Leu  
 20 25 30  
 Met Lys Pro Leu Val Val Phe Val Leu Gly Gly Pro Gly Ala Gly Lys  
 35 40 45  
 Gly Thr Gln Cys Ala Arg Ile Val Glu Lys Tyr Gly Tyr Thr His Leu  
 50 55 60  
 Ser Ala Gly Glu Leu Leu Arg Asp Glu Arg Lys Asn Pro Asp Ser Gln  
 65 70 75 80  
 Tyr Gly Glu Leu Ile Glu Lys Tyr Ile Lys Glu Gly Lys Ile Val Pro  
 85 90 95  
 Val Glu Ile Thr Ile Ser Leu Leu Lys Arg Glu Met Asp Gln Thr Met  
 100 105 110  
 Ala Ala Asn Ala Gln Lys Asn Lys Phe Leu Ile Asp Gly Phe Pro Arg  
 115 120 125  
 Asn Gln Asp Asn Leu Gln Gly Trp Asn Lys Thr Met Asp Gly Lys Ala  
 130 135 140  
 Asp Val Ser Phe Val Leu Phe Phe Asp Cys Asn Asn Glu Ile Cys Ile  
 145 150 155 160  
 Glu Arg Cys Leu Glu Arg Gly Lys Ser Ser Gly Arg Ser Asp Asp Asn  
 165 170 175  
 Arg Glu Ser Leu Glu Lys Arg Ile Gln Thr Tyr Leu Gln Ser Thr Lys  
 180 185 190

Pro Ile Ile Asp Leu Tyr Glu Glu Met Gly Lys Val Lys Lys Ile Asp  
 195 200 205  
 Ala Ser Lys Ser Val Asp Glu Val Phe Asp Glu Val Val Gln Ile Phe  
 210 215 220  
 Asp Lys Glu Gly  
 225

<210> 292  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens  
 <400> 292

Met Ala Phe Cys Leu Arg Ala Ser Leu Gly Pro Asp Cys Cys Cys Trp  
 1 5 10 15  
 Tyr Gln Ser Pro Glu Thr Leu Pro Pro Trp Ser Pro Cys Met Pro Ser  
 20 25 30  
 Cys Ser Tyr Cys Leu Val Ala Leu Lys Gln His Ile Ser Thr Val Pro  
 35 40 45  
 Gly Arg Ile Val Gly Gly Phe Thr Thr Pro Ala Phe Leu Thr Ser Ser  
 50 55 60  
 Ser Ala Gln His Trp Val Pro Leu Pro Ser Phe Pro Ala Gly Ala Ser  
 65 70 75 80  
 Trp Ala Thr Val Ser Gly Ser Gly Pro Ala Arg Val Val Leu Leu Phe  
 85 90 95  
 Leu Leu Leu Leu Gly Asn His Thr Trp Gln Val Lys Cys Pro Lys His  
 100 105 110  
 Leu Val Ser Leu Pro Lys Asn Lys Pro Phe Leu Cys Thr Ser Leu Glu  
 115 120 125  
 Ala Arg  
 130

<210> 293  
 <211> 460  
 <212> PRT  
 <213> Homo sapiens  
 <400> 293

Met Ala Ser Leu Leu Gln Ser Asp Arg Val Leu Tyr Leu Val Gln Gly  
 1 5 10 15  
 Glu Lys Lys Val Arg Ala Pro Leu Ser Gln Leu Tyr Phe Cys Arg Tyr  
 20 25 30  
 Cys Ser Glu Leu Arg Ser Leu Glu Cys Val Ser His Glu Val Asp Ser  
 35 40 45  
 His Tyr Cys Pro Ser Cys Leu Glu Asn Met Pro Ser Ala Glu Ala Lys  
 50 55 60  
 Leu Lys Lys Asn Arg Cys Ala Asn Cys Phe Asp Cys Pro Gly Cys Met  
 65 70 75 80  
 His Thr Leu Ser Thr Arg Ala Thr Ser Ile Ser Thr Gln Leu Pro Asp  
 85 90 95  
 Asp Pro Ala Lys Thr Thr Met Lys Lys Ala Tyr Tyr Leu Ala Cys Gly  
 100 105 110  
 Phe Cys Arg Trp Thr Ser Arg Asp Val Gly Met Ala Asp Lys Ser Val  
 115 120 125  
 Ala Ser Gly Gly Trp Gln Glu Pro Glu Asn Pro His Thr Gln Arg Met  
 130 135 140  
 Asn Lys Leu Ile Glu Tyr Tyr Gln Gln Leu Ala Gln Lys Glu Lys Val  
 145 150 155 160  
 Glu Arg Asp Arg Lys Lys Leu Ala Arg Arg Asn Tyr Met Pro Leu  
 165 170 175  
 Ala Phe Ser Asp Lys Tyr Gly Leu Gly Thr Arg Leu Gln Arg Pro Arg  
 180 185 190  
 Ala Gly Ala Ser Ile Ser Thr Leu Ala Gly Leu Ser Leu Lys Glu Gly  
 195 200 205  
 Glu Asp Gln Lys Glu Ile Lys Ile Glu Pro Ala Gln Ala Val Asp Glu  
 210 215 220  
 Val Glu Pro Leu Pro Glu Asp Tyr Tyr Thr Arg Pro Val Asn Leu Thr  
 225 230 235 240  
 Glu Val Thr Thr Leu Gln Gln Arg Leu Leu Gln Pro Asp Phe Gln Pro  
 245 250 255  
 Val Cys Ala Ser Gln Leu Tyr Pro Arg His Lys His Leu Leu Ile Lys

260  
 Arg Ser Leu Arg Cys Arg Lys Cys 265  
 275 Glu His Asn Leu Ser Lys Pro Glu  
 Phe Asn Pro Thr Ser Ile Lys 280  
 290 Phe Lys Ile Gln Leu Val Ala Val Asn  
 Tyr Ile Pro Glu Val Arg Ile Met Ser Ile Pro Asn Leu Arg Tyr Met  
 305 310 315 320  
 Lys Glu Ser Gln Val Leu Leu Thr Leu Thr Asn Pro Val Glu Asn Leu  
 325 330 335  
 Thr His Val Thr Leu Phe Glu Cys Glu Glu Gly Asp Pro Asp Ile  
 340 345 350  
 Asn Ser Thr Ala Lys Val Val Val Pro Pro Lys Glu Leu Val Leu Ala  
 355 360 365  
 Gly Lys Asp Ala Ala Ala Glu Tyr Asp Glu Leu Ala Glu Pro Gln Asp  
 370 375 380  
 Phe Gln Asp Asp Pro Asp Ile Ile Ala Phe Arg Lys Ala Asn Lys Val  
 385 390 395 400  
 Gly Ile Phe Ile Lys Val Thr Pro Gln Arg Glu Glu Gly Glu Val Thr  
 405 410 415  
 Val Cys Phe Lys Met Lys His Asp Phe Lys Asn Leu Ala Ala Pro Ile  
 420 425 430  
 Arg Pro Ile Glu Glu Ser Asp Gln Gly Thr Glu Val Ile Trp Leu Thr  
 435 440 445  
 Gln His Val Glu Leu Ser Leu Gly Pro Leu Leu Pro  
 450 455 460

<210> 294  
 <211> 524  
 <212> PRT  
 <213> Homo sapiens  
 <400> 294

Met Thr Ala Glu Asp Ser Thr Ala Ala Met Ser Ser Asp Ser Ala Ala  
 1 5 10 15  
 Gly Ser Ser Ala Lys Val Pro Glu Gly Val Ala Gly Ala Pro Asn Glu  
 20 25 30  
 Ala Ala Leu Leu Ala Leu Met Glu Arg Thr Gly Tyr Ser Met Val Gln  
 35 40 45  
 Glu Asn Gly Gln Arg Lys Tyr Gly Gly Pro Pro Pro Gly Trp Glu Gly  
 50 55 60  
 Pro His Pro Gln Arg Gly Cys Glu Val Phe Val Gly Lys Ile Pro Arg  
 65 70 75 80  
 Asp Val Tyr Glu Asp Glu Leu Val Pro Val Phe Glu Ala Val Gly Arg  
 85 90 95  
 Thr Tyr Glu Leu Arg Leu Met Met Asp Phe Asp Gly Lys Asn Arg Gly  
 100 105 110  
 Tyr Ala Phe Val Met Tyr Cys His Lys His Glu Ala Lys Arg Ala Val  
 115 120 125  
 Arg Glu Leu Asn Asn Tyr Glu Ile Arg Pro Gly Arg Leu Leu Gly Val  
 130 135 140  
 Cys Cys Ser Val Asp Asn Cys Arg Leu Phe Ile Gly Gly Ile Pro Lys  
 145 150 155 160  
 Met Lys Lys Arg Glu Glu Ile Leu Glu Glu Ile Ala Lys Val Thr Glu  
 165 170 175  
 Gly Val Leu Asp Val Ile Val Tyr Ala Ser Ala Ala Asp Lys Met Lys  
 180 185 190  
 Asn Arg Gly Phe Ala Phe Val Glu Tyr Glu Ser His Arg Ala Ala Ala  
 195 200 205  
 Met Ala Arg Arg Lys Leu Met Pro Gly Arg Ile Gln Leu Trp Gly His  
 210 215 220  
 Gln Ile Ala Val Asp Trp Ala Glu Pro Glu Ile Asp Val Asp Glu Asp  
 225 230 235 240  
 Val Met Glu Thr Val Lys Ile Leu Tyr Val Arg Asn Leu Met Ile Glu  
 245 250 255  
 Thr Thr Glu Asp Thr Ile Lys Lys Ser Phe Gly Gln Phe Asn Pro Gly  
 260 265 270  
 Cys Val Glu Arg Val Lys Lys Ile Arg Asp Tyr Ala Phe Val His Phe  
 275 280 285  
 Thr Ser Arg Glu Asp Ala Val His Ala Met Asn Asn Leu Asn Gly Thr  
 290 295 300

Glu Leu Glu Gly Ser Cys Leu Glu Val Thr Leu Ala Lys Pro Val Asp  
 305 310 315 320  
 Lys Glu Gln Tyr Ser Arg Tyr Gln Lys Ala Ala Arg Gly Gly Gly Ala  
 325 330 335  
 Ala Glu Ala Ala Gln Gln Pro Ser Tyr Val Tyr Ser Cys Asp Pro Tyr  
 340 345 350  
 Thr Leu Ala Tyr Tyr Gly Tyr Pro Tyr Asn Ala Leu Ile Gly Pro Asn  
 355 360 365  
 Arg Asp Tyr Phe Val Lys Val Ala Ile Pro Ala Ile Gly Ala Gln Tyr  
 370 375 380  
 Ser Met Phe Pro Ala Ala Pro Ala Pro Lys Met Ile Glu Asp Gly Lys  
 385 390 395 400  
 Ile His Thr Val Glu His Met Ile Ser Pro Ile Ala Val Gln Pro Asp  
 405 410 415  
 Pro Ala Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
 420 425 430  
 Ala Val Ile Pro Thr Val Ser Thr Pro Pro Pro Phe Gln Gly Arg Pro  
 435 440 445  
 Ile Thr Pro Val Tyr Thr Val Ala Pro Asn Val Gln Arg Ile Pro Thr  
 450 455 460  
 Ala Gly Ile Tyr Gly Ala Ser Tyr Val Pro Phe Ala Ala Pro Ala Thr  
 465 470 475 480  
 Ala Thr Ile Ala Thr Leu Gln Lys Asn Ala Ala Ala Ala Ala Val  
 485 490 495  
 Tyr Gly Gly Tyr Ala Gly Tyr Ile Pro Gln Ala Phe Pro Ala Ala  
 500 505 510  
 Ile Gln Val Pro Ile Pro Asp Val Tyr Gln Thr Tyr  
 515 520

<210> 295  
 <211> 1232  
 <212> PRT  
 <213> Homo sapiens  
 <400> 295

Met Lys Glu Glu Val Lys Gly Ile Pro Val Arg Val Ala Leu Arg Cys  
 1 5 10 15  
 Arg Pro Leu Val Pro Lys Glu Ile Ser Glu Gly Cys Gln Met Cys Leu  
 20 25 30  
 Ser Phe Val Pro Gly Glu Pro Gln Val Val Val Gly Thr Asp Lys Ser  
 35 40 45  
 Phe Thr Tyr Asp Phe Val Phe Asp Pro Ser Thr Glu Gln Glu Glu Val  
 50 55 60  
 Phe Asn Thr Ala Val Ala Pro Leu Ile Lys Gly Val Phe Lys Gly Tyr  
 65 70 75 80  
 Asn Ala Thr Val Leu Ala Tyr Gly Gln Thr Gly Ser Gly Lys Thr Tyr  
 85 90 95  
 Ser Met Gly Gly Ala Tyr Thr Ala Glu Gln Glu Asn Glu Pro Thr Val  
 100 105 110  
 Gly Val Ile Pro Arg Val Ile Gln Leu Leu Phe Lys Glu Ile Asp Lys  
 115 120 125  
 Lys Ser Asp Phe Glu Phe Thr Leu Lys Val Ser Tyr Leu Glu Ile Tyr  
 130 135 140  
 Asn Glu Glu Ile Leu Asp Leu Leu Cys Pro Ser Arg Glu Lys Ala Gln  
 145 150 155 160  
 Ile Asn Ile Arg Glu Asp Pro Lys Glu Gly Ile Lys Ile Val Gly Leu  
 165 170 175  
 Thr Glu Lys Thr Val Leu Val Ala Leu Asp Thr Val Ser Cys Leu Glu  
 180 185 190  
 Gln Gly Asn Asn Ser Arg Thr Val Ala Ser Thr Ala Met Asn Ser Gln  
 195 200 205  
 Ser Ser Arg Ser His Ala Ile Phe Thr Ile Ser Leu Glu Gln Gly Lys  
 210 215 220  
 Lys Ser Asp Lys Asn Ser Ser Phe Arg Ser Lys Leu His Leu Val Asp  
 225 230 235 240  
 Leu Ala Gly Ser Glu Arg Gln Lys Lys Thr Lys Ala Glu Gly Asp Arg  
 245 250 255  
 Leu Lys Glu Gly Ile Asn Ile Asn Arg Gly Leu Leu Cys Leu Gly Asn  
 260 265 270  
 Val Ile Ser Ala Leu Gly Asp Asp Lys Lys Gly Gly Phe Ala Pro Tyr

275	280	285
Arg Asp Ser Lys Leu Thr	Arg Leu Leu Gln Asp Ser	Leu Gly Gly Asn
290	295	300
Ser His Thr Leu Met Ile	Ala Cys Val Ser Pro	Ala Asp Ser Asn Leu
305	310	315
Glu Glu Thr Leu Asn Thr	Leu Arg Tyr Ala Asp	Arg Ala Arg Lys Ile
325	330	335
Lys Asn Lys Pro Ile Val	Asn Ile Asp Pro Gln	Thr Ala Glu Leu Asn
340	345	350
His Leu Lys Gln Gln Val	Gln Gln Leu Gln Val	Leu Leu Leu Gln Ala
355	360	365
His Gly Gly Thr Leu Pro	Gly Ser Ile Thr Val	Glu Pro Ser Glu Asn
370	375	380
Leu Gln Ser Leu Met Glu	Lys Asn Gln Ser Leu	Val Glu Glu Asn Glu
385	390	395
Lys Leu Ser Arg Gly Leu	Ser Glu Ala Ala Gly	Gln Thr Ala Gln Met
405	410	415
Leu Glu Arg Ile Ile Trp	Thr Glu Gln Ala Asn	Glu Lys Met Asn Ala
420	425	430
Lys Leu Glu Glu Leu Arg	Gln His Ala Ala Cys	Lys Leu Asp Leu Gln
435	440	445
Lys Leu Val Glu Thr Leu	Glu Asp Gln Glu Leu	Lys Glu Asn Val Glu
450	455	460
Ile Ile Cys Asn Leu Gln	Gln Leu Ile Thr Gln	Leu Ser Asp Glu Thr
465	470	475
Val Ala Cys Met Ala Ala	Ile Asp Thr Ala Val	Glu Gln Glu Ala
485	490	495
Gln Val Glu Thr Ser Pro	Glu Thr Ser Arg Ser	Ser Asp Ala Phe Thr
500	505	510
Thr Gln His Ala Leu Arg	Gln Ala Gln Met Ser	Lys Glu Leu Val Glu
515	520	525
Leu Asn Lys Ala Leu Ala	Leu Lys Glu Ala Leu	Ala Arg Lys Met Thr
530	535	540
Gln Asn Asp Ser Gln Leu	Gln Pro Ile Gln Tyr	Gln Tyr Gln Asp Asn
545	550	555
Ile Lys Glu Pro Glu Leu	Glu Val Ile Asn Leu	Gln Lys Glu Lys Glu
565	570	575
Glu Leu Val Leu Glu Leu	Gln Thr Ala Lys Lys	Asp Ala Asn Gln Ala
580	585	590
Lys Leu Ser Glu Arg Arg	Arg Lys Arg Leu Gln	Glu Leu Glu Gly Gln
595	600	605
Ile Ala Asp Leu Lys Lys	Lys Leu Asn Glu Gln	Ser Lys Leu Leu Lys
610	615	620
Leu Lys Glu Ser Thr Glu	Arg Thr Val Ser Lys	Leu Asn Gln Glu Ile
625	630	635
Arg Met Met Lys Asn Gln	Arg Val Gln Leu Met	Arg Gln Met Lys Glu
645	650	655
Asp Ala Glu Lys Phe Arg	Gln Trp Lys Gln Lys	Arg Asp Lys Glu Val
660	665	670
Ile Gln Leu Lys Glu Arg	Asp Arg Lys Arg Gln	Tyr Glu Leu Leu Lys
675	680	685
Leu Glu Arg Asn Phe Gln	Lys Gln Ser Asn Val	Leu Arg Arg Lys Thr
690	695	700
Glu Glu Ala Ala Ala Ala	Asn Lys Arg Leu Lys	Asp Ala Leu Gln Lys
705	710	715
Gln Arg Glu Val Ala Asp	Lys Arg Lys Glu Thr	Gln Ser Arg Gly Met
725	730	735
Glu Gly Thr Ala Ala Arg	Val Lys Asn Trp Leu	Gly Asn Glu Ile Glu
740	745	750
Val Met Val Ser Thr Glu	Glu Ala Lys Arg His	Leu Asn Asp Leu Leu
755	760	765
Glu Asp Arg Lys Ile Leu	Ala Gln Asp Val Ala	Gln Leu Lys Glu Lys
770	775	780
Lys Glu Ser Gly Glu Asn	Pro Pro Pro Lys	Leu Arg Arg Arg Thr
785	790	795
Ser Leu Thr Glu Val Arg	Gly Gln Val Ser	Glu Ser Glu Asp Ser
805	810	815
Thr Lys Gln Ile Glu Ser	Leu Glu Thr Glu	Met Glu Phe Arg Ser
820	825	830



Gln Ile Ala Asp Leu Gln Gln Lys Leu Leu Asp Ala Glu Ser Glu Asp  
 835 840 845  
 Arg Pro Lys Gln Arg Trp Glu Asn Ile Ala Thr Ile Leu Glu Ala Lys  
 850 855 860  
 Cys Ala Leu Lys Tyr Leu Ile Gly Glu Leu Val Ser Ser Lys Ile Gln  
 865 870 875 880  
 Val Ser Lys Leu Glu Ser Ser Leu Lys Gln Ser Lys Thr Ser Cys Ala  
 885 890 895  
 Asp Met Gln Lys Met Leu Phe Glu Glu Arg Asn His Phe Ala Glu Ile  
 900 905 910  
 Glu Thr Glu Leu Gln Ala Glu Leu Val Arg Met Glu Gln Gln His Gln  
 915 920 925  
 Glu Lys Val Leu Tyr Leu Leu Ser Gln Leu Gln Gln Ser Gln Met Ala  
 930 935 940  
 Glu Lys Gln Leu Glu Glu Ser Val Ser Glu Lys Glu Gln Gln Leu Leu  
 945 950 955 960  
 Ser Thr Leu Lys Cys Gln Asp Glu Glu Leu Glu Lys Met Arg Glu Val  
 965 970 975  
 Cys Glu Gln Asn Gln Gln Leu Leu Arg Glu Asn Glu Ile Ile Lys Gln  
 980 985 990  
 Lys Leu Thr Leu Leu Gln Val Ala Ser Arg Gln Lys His Leu Pro Lys  
 995 1000 1005  
 Asp Thr Leu Leu Ser Pro Asp Ser Ser Phe Glu Tyr Val Gln Pro  
 1010 1015 1020  
 Lys Pro Lys Pro Ser Arg Val Lys Glu Lys Phe Leu Glu Gln Ser  
 1025 1030 1035  
 Met Asp Ile Glu Asp Leu Lys Tyr Cys Ser Glu His Ser Val Asn  
 1040 1045 1050  
 Glu His Glu Asp Gly Asp Gly Asp Asp Asp Glu Gly Asp Asp Glu  
 1055 1060 1065  
 Glu Trp Lys Pro Thr Lys Leu Val Asn Val Ser Arg Lys Asn Ile  
 1070 1075 1080  
 Gln Gly Cys Ser Cys Lys Gly Trp Cys Gly Asn Lys Gln Cys Gly  
 1085 1090 1095  
 Cys Arg Lys Gln Lys Ser Asp Cys Gly Val Asp Cys Cys Cys Asp  
 1100 1105 1110  
 Pro Thr Lys Cys Arg Asn Arg Gln Gln Gly Lys Asp Ser Leu Gly  
 1115 1120 1125  
 Thr Val Glu Arg Thr Gln Asp Ser Glu Ser Ser Phe Lys Leu Glu  
 1130 1135 1140  
 Asp Pro Thr Glu Val Thr Pro Gly Leu Ser Phe Phe Asn Pro Val  
 1145 1150 1155  
 Cys Ala Thr Pro Asn Ser Lys Ile Leu Lys Glu Met Cys Asp Val  
 1160 1165 1170  
 Glu Gln Val Leu Ser Lys Lys Thr Pro Pro Ala Pro Ser Pro Phe  
 1175 1180 1185  
 Asp Leu Pro Glu Leu Lys His Val Ala Thr Glu Tyr Gln Glu Asn  
 1190 1195 1200  
 Lys Ala Pro Gly Lys Lys Lys Lys Arg Ala Leu Ala Ser Asn Thr  
 1205 1210 1215  
 Ser Phe Phe Ser Gly Cys Ser Pro Ile Glu Glu Glu Ala His  
 1220 1225 1230

&lt;210&gt; 296

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

Met Ala Gln Gly Leu Ile Glu Val Glu Arg Lys Phe Leu Pro Gly Pro  
 1 5 10 15  
 Gly Thr Glu Glu Arg Leu Gln Glu Leu Gly Gly Thr Leu Glu Tyr Arg  
 20 25 30  
 Val Thr Phe Arg Asp Thr Tyr Tyr Asp Thr Pro Glu Leu Ser Leu Met  
 35 40 45  
 Gln Ala Asp His Trp Leu Arg Arg Arg Glu Asp Ser Gly Trp Glu Leu  
 50 55 60  
 Lys Cys Pro Gly Ala Ala Gly Val Leu Gly Pro His Thr Glu Tyr Lys  
 65 70 75 80  
 Glu Leu Thr Ala Glu Pro Thr Ile Val Ala Gln Leu Cys Lys Val Leu

85 90 95  
 Arg Ala Asp Gly Leu Gly Ala Gly Asp Val Ala Ala Val Leu Gly Pro  
 100 105 110  
 Leu Gly Leu Gln Glu Val Ala Ser Phe Val Thr Lys Arg Ser Ala Trp  
 115 120 125  
 Lys Leu Val Leu Leu Gly Ala Asp Glu Glu Glu Pro Gln Leu Arg Val  
 130 135 140  
 Asp Leu Asp Thr Ala Asp Phe Gly Tyr Ala Val Gly Glu Val Glu Ala  
 145 150 155 160  
 Leu Val His Glu Glu Ala Glu Val Pro Thr Ala Leu Glu Lys Ile His  
 165 170 175  
 Arg Leu Ser Ser Met Leu Gly Val Pro Ala Gln Glu Thr Ala Pro Ala  
 180 185 190  
 Lys Leu Ile Val Tyr Leu Gln Arg Phe Arg Pro Gln Asp Tyr Gln Arg  
 195 200 205  
 Leu Leu Glu Val Asn Ser Ser Arg Glu Arg Pro Gln Glu Thr Glu Asp  
 210 215 220  
 Pro Asp His Cys Leu Gly  
 225 230

&lt;210&gt; 297

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

Met Ser Gly Val Val Pro Thr Ala Pro Glu Gln Pro Ala Gly Glu Met  
 1 5 10 15  
 Glu Asn Gln Thr Lys Pro Pro Asp Pro Arg Pro Asp Ala Pro Pro Glu  
 20 25 30  
 Tyr Ser Ser His Phe Leu Pro Gly Pro Pro Gly Thr Ala Val Pro Pro  
 35 40 45  
 Pro Thr Gly Tyr Pro Gly Gly Leu Pro Met Gly Tyr Ser Pro Gln  
 50 55 60  
 Gln Pro Ser Thr Phe Pro Leu Tyr Gln Pro Val Gly Gly Ile His Pro  
 65 70 75 80  
 Val Arg Tyr Gln Pro Gly Lys Tyr Pro Met Pro Asn Gln Ser Val Pro  
 85 90 95  
 Ile Thr Trp Met Pro Gly Pro Thr Pro Met Ala Asn Cys Pro Pro Gly  
 100 105 110  
 Leu Glu Tyr Leu Val Gln Leu Asp Asn Ile His Val Leu Gln His Phe  
 115 120 125  
 Glu Pro Leu Glu Met Met Thr Cys Phe Glu Thr Asn Asn Arg Tyr Asp  
 130 135 140  
 Ile Lys Asn Asn Ser Asp Gln Met Val Tyr Val Val Thr Glu Asp Thr  
 145 150 155 160  
 Asp Asp Phe Thr Arg Asn Ala Tyr Arg Thr Leu Arg Pro Phe Val Leu  
 165 170 175  
 Arg Val Thr Asp Cys Met Gly Arg Glu Ile Met Thr Met Gln Arg Pro  
 180 185 190  
 Phe Arg Cys Thr Cys Cys Cys Phe Cys Cys Pro Ser Ala Arg Gln Glu  
 195 200 205  
 Leu Glu Val Gln Cys Pro Pro Gly Val Thr Ile Gly Phe Val Ala Glu  
 210 215 220  
 His Trp Asn Leu Cys Arg Ala Val Tyr Ser Ile Gln Asn Glu Lys Lys  
 225 230 235 240  
 Glu Asn Val Met Arg Val Arg Gly Pro Cys Ser Thr Tyr Gly Cys Gly  
 245 250 255  
 Ser Asp Ser Val Phe Glu Val Lys Ser Leu Asp Gly Ile Ser Asn Ile  
 260 265 270  
 Gly Ser Ile Ile Arg Lys Trp Asn Gly Leu Leu Ser Ala Met Ala Asp  
 275 280 285  
 Ala Asp His Phe Asp Ile His Phe Pro Leu Asp Leu Asp Val Lys Met  
 290 295 300  
 Lys Ala Met Ile Phe Gly Ala Cys Phe Leu Ile Asp Phe Met Tyr Phe  
 305 310 315 320  
 Glu Arg Ser Pro Pro Gln Arg Ser Arg  
 325

&lt;210&gt; 298

<211> 323  
 <212> PRT  
 <213> Homo sapiens  
 <400> 298

```

Met Gly Gly Gln Val Ser Ala Ser Asn Ser Phe Ser Arg Leu His Cys
1      5      10      15
Arg Asn Ala Asn Glu Asp Trp Met Ser Ala Leu Cys Pro Arg Leu Trp
20      25      30
Asp Val Pro Leu His His Leu Ser Ile Pro Gly Ser His Asp Thr Met
35      40      45
Thr Tyr Cys Leu Asn Lys Lys Ser Pro Ile Ser His Glu Glu Ser Arg
50      55      60
Leu Leu Gln Leu Leu Asn Lys Ala Leu Pro Cys Ile Thr Arg Pro Val
65      70      75      80
Val Leu Lys Trp Ser Val Thr Gln Ala Leu Asp Val Thr Glu Gln Leu
85      90      95
Asp Ala Gly Val Arg Tyr Leu Asp Leu Arg Ile Ala His Met Leu Glu
100      105      110
Gly Ser Glu Lys Asn Leu His Phe Val His Met Val Tyr Thr Thr Ala
115      120      125
Leu Val Glu Asp Thr Leu Thr Glu Ile Ser Glu Trp Leu Glu Arg His
130      135      140
Pro Arg Glu Val Val Ile Leu Ala Cys Arg Asn Phe Glu Gly Leu Ser
145      150      155      160
Glu Asp Leu His Glu Tyr Leu Val Ala Cys Ile Lys Asn Ile Phe Gly
165      170      175
Asp Met Leu Cys Pro Arg Gly Glu Val Pro Thr Leu Arg Gln Leu Trp
180      185      190
Ser Arg Gly Gln Gln Val Ile Val Ser Tyr Glu Asp Glu Ser Ser Leu
195      200      205
Arg Arg His His Glu Leu Trp Pro Gly Val Pro Tyr Trp Trp Gly Asn
210      215      220
Arg Val Lys Thr Glu Ala Leu Ile Arg Tyr Leu Glu Thr Met Lys Ser
225      230      235      240
Cys Gly Arg Pro Gly Gly Leu Phe Val Ala Gly Ile Asn Leu Thr Glu
245      250      255
Asn Leu Gln Tyr Val Leu Ala His Pro Ser Glu Ser Leu Glu Lys Met
260      265      270
Thr Leu Pro Asn Leu Pro Arg Leu Ser Ala Trp Val Arg Glu Gln Cys
275      280      285
Pro Gly Pro Gly Ser Arg Cys Thr Asn Ile Ile Ala Gly Asp Phe Ile
290      295      300
Gly Ala Asp Gly Phe Val Ser Asp Val Ile Ala Leu Asn Gln Lys Leu
305      310      315      320
Leu Trp Cys

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<210> 299  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens  
 <400> 299

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Met Thr Thr Glu Ile Gly Trp Trp Lys Leu Thr Phe Leu Arg Lys Lys
1      5      10      15
Lys Ser Thr Pro Lys Val Leu Tyr Glu Ile Pro Asp Thr Tyr Ala Gln
20      25      30
Thr Glu Gly Asp Ala Glu Pro Pro Arg Pro Asp Ala Gly Gly Pro Asn
35      40      45
Ser Asp Phe Asn Thr Arg Leu Glu Lys Ile Val Asp Lys Ser Thr Lys
50      55      60
Gly Lys His Val Lys Val Ser Asn Ser Gly Arg Phe Lys Glu Lys Lys
65      70      75      80
Lys Val Arg Ala Thr Leu Ala Glu Asn Pro Asn Leu Phe Asp Asp His
85      90      95
Glu Glu Gly Arg Ser Ser Lys
100

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<210> 300  
 <211> 999

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 300

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Met Gly Val Ala Gly Arg Asn Arg Pro Gly Ala Ala Trp Ala Val Leu
1      5      10      15
Leu Leu Leu Leu Leu Pro Pro Leu Leu Leu Ala Gly Ala Val
20      25      30
Pro Pro Gly Arg Gly Arg Ala Ala Gly Pro Gln Glu Asp Val Asp Glu
35      40      45
Cys Ala Gln Gly Leu Asp Asp Cys His Ala Asp Ala Leu Cys Gln Asn
50      55      60
Thr Pro Thr Ser Tyr Lys Cys Ser Cys Lys Pro Gly Tyr Gln Gly Glu
65      70      75      80
Gly Arg Gln Cys Glu Asp Ile Asp Glu Cys Gly Asn Glu Leu Asn Gly
85      90      95
Gly Cys Val His Asp Cys Leu Asn Ile Pro Gly Asn Tyr Arg Cys Thr
100     105     110
Cys Phe Asp Gly Phe Met Leu Ala His Asp Gly His Asn Cys Leu Asp
115     120     125
Val Asp Glu Cys Leu Glu Asn Asn Gly Gly Cys Gln His Thr Cys Val
130     135     140
Asn Val Met Gly Ser Tyr Thr Cys Cys Cys Lys Glu Gly Phe Phe Leu
145     150     155     160
Ser Asp Asn Gln His Thr Cys Ile His Arg Ser Glu Glu Gly Leu Ser
165     170     175
Cys Met Asn Lys Asp His Gly Cys Ser His Ile Cys Lys Glu Ala Pro
180     185     190
Arg Gly Ser Val Ala Cys Glu Cys Arg Pro Gly Phe Glu Leu Ala Lys
195     200     205
Asn Gln Arg Asp Cys Ile Leu Thr Cys Asn His Gly Asn Gly Gly Cys
210     215     220
Gln His Ser Cys Asp Asp Thr Ala Asp Gly Pro Glu Cys Ser Cys His
225     230     235     240
Pro Gln Tyr Lys Met His Thr Asp Gly Arg Ser Cys Leu Glu Arg Glu
245     250     255
Asp Thr Val Leu Glu Val Thr Glu Ser Asn Thr Thr Ser Val Val Asp
260     265     270
Gly Asp Lys Arg Val Lys Arg Arg Leu Leu Met Glu Thr Cys Ala Val
275     280     285
Asn Asn Gly Gly Cys Asp Arg Thr Cys Lys Asp Thr Ser Thr Gly Val
290     295     300
His Cys Ser Cys Pro Val Gly Phe Thr Leu Gln Leu Asp Gly Lys Thr
305     310     315     320
Cys Lys Asp Ile Asp Glu Cys Gln Thr Arg Asn Gly Gly Cys Asp His
325     330     335
Phe Cys Lys Asn Ile Val Gly Ser Phe Asp Cys Gly Cys Lys Lys Gly
340     345     350
Phe Lys Leu Leu Thr Asp Glu Lys Ser Cys Gln Asp Val Asp Glu Cys
355     360     365
Ser Leu Asp Arg Thr Cys Asp His Ser Cys Ile Asn His Pro Gly Thr
370     375     380
Phe Ala Cys Ala Cys Asn Arg Gly Tyr Thr Leu Tyr Gly Phe Thr His
385     390     395     400
Cys Gly Asp Thr Asn Glu Cys Ser Ile Asn Asn Gly Gly Cys Gln Gln
405     410     415
Val Cys Val Asn Thr Val Gly Ser Tyr Glu Cys Gln Cys His Pro Gly
420     425     430
Tyr Lys Leu His Trp Asn Lys Lys Asp Cys Val Glu Val Lys Gly Leu
435     440     445
Leu Pro Thr Ser Val Ser Pro Arg Val Ser Leu His Cys Gly Lys Ser
450     455     460
Gly Gly Gly Asp Gly Cys Phe Leu Arg Cys His Ser Gly Ile His Leu
465     470     475     480
Ser Ser Asp Val Thr Thr Ile Arg Thr Ser Val Thr Phe Lys Leu Asn
485     490     495
Glu Gly Lys Cys Ser Leu Lys Asn Ala Glu Leu Phe Pro Glu Gly Leu
500     505     510
Arg Pro Ala Leu Pro Glu Lys His Ser Ser Val Lys Glu Ser Phe Arg
515     520     525

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Tyr Val Asn Leu Thr Cys Ser Ser Gly Lys Gln Val Pro Gly Ala Pro  
 530 535 540  
 Gly Arg Pro Ser Thr Pro Lys Glu Met Phe Ile Thr Val Glu Phe Glu  
 545 550 555 560  
 Leu Glu Thr Asn Gln Lys Glu Val Thr Ala Ser Cys Asp Leu Ser Cys  
 565 570 575  
 Ile Val Lys Arg Thr Glu Lys Arg Leu Arg Lys Ala Ile Arg Thr Leu  
 580 585 590  
 Arg Lys Ala Val His Arg Glu Gln Phe His Leu Gln Leu Ser Gly Met  
 595 600 605  
 Asn Leu Asp Val Ala Lys Lys Pro Pro Arg Thr Ser Glu Arg Gln Ala  
 610 615 620  
 Glu Ser Cys Gly Val Gly Gln Gly His Ala Glu Asn Gln Cys Val Ser  
 625 630 635 640  
 Cys Arg Ala Gly Thr Tyr Tyr Asp Gly Ala Arg Glu Arg Cys Ile Leu  
 645 650 655  
 Cys Pro Asn Gly Thr Phe Gln Asn Glu Gly Gln Met Thr Cys Glu  
 660 665 670  
 Pro Cys Pro Arg Pro Gly Asn Ser Gly Ala Leu Lys Thr Pro Glu Ala  
 675 680 685  
 Trp Asn Met Ser Glu Cys Gly Gly Leu Cys Gln Pro Gly Glu Tyr Ser  
 690 695 700  
 Ala Asp Gly Phe Ala Pro Cys Gln Leu Cys Ala Leu Gly Thr Phe Gln  
 705 710 715 720  
 Pro Glu Ala Gly Arg Thr Ser Cys Phe Pro Cys Gly Gly Gly Leu Ala  
 725 730 735  
 Thr Lys His Gln Gly Ala Thr Ser Phe Gln Asp Cys Glu Thr Arg Val  
 740 745 750  
 Gln Cys Ser Pro Gly His Phe Tyr Asn Thr Thr Thr His Arg Cys Ile  
 755 760 765  
 Arg Cys Pro Val Gly Thr Tyr Gln Pro Glu Phe Gly Lys Asn Asn Cys  
 770 775 780  
 Val Ser Cys Pro Gly Asn Thr Thr Thr Asp Phe Asp Gly Ser Thr Asn  
 785 790 795 800  
 Ile Thr Gln Cys Lys Asn Arg Arg Cys Gly Gly Glu Leu Gly Asp Phe  
 805 810 815  
 Thr Gly Tyr Ile Glu Ser Pro Asn Tyr Pro Gly Asn Tyr Pro Ala Asn  
 820 825 830  
 Thr Glu Cys Thr Trp Thr Ile Asn Pro Pro Pro Lys Arg Arg Ile Leu  
 835 840 845  
 Ile Val Val Pro Glu Ile Phe Leu Pro Ile Glu Asp Asp Cys Gly Asp  
 850 855 860  
 Tyr Leu Val Met Arg Lys Thr Ser Ser Ser Asn Ser Val Thr Thr Tyr  
 865 870 875 880  
 Glu Thr Cys Gln Thr Tyr Glu Arg Pro Ile Ala Phe Thr Ser Arg Ser  
 885 890 895  
 Lys Lys Leu Trp Ile Gln Phe Lys Ser Asn Glu Gly Asn Ser Ala Arg  
 900 905 910  
 Gly Phe Gln Val Pro Tyr Val Thr Tyr Asp Glu Asp Tyr Gln Glu Leu  
 915 920 925  
 Ile Glu Asp Ile Val Arg Asp Gly Arg Leu Tyr Ala Ser Glu Asn His  
 930 935 940  
 Gln Glu Ile Leu Lys Asp Lys Lys Leu Ile Lys Ala Leu Phe Asp Val  
 945 950 955 960  
 Leu Ala His Pro Gln Asn Tyr Phe Lys Tyr Thr Ala Gln Glu Ser Arg  
 965 970 975  
 Glu Met Phe Pro Arg Ser Phe Ile Arg Leu Leu Arg Ser Lys Val Ser  
 980 985 990  
 Arg Phe Leu Arg Pro Tyr Lys  
 995

&lt;210&gt; 301

&lt;211&gt; 340

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

Met Cys Ala Gln Tyr Cys Ile Ser Phe Ala Asp Val Glu Lys Ala His  
 1 5 10 15  
 Ile Asn Ile Arg Asp Ser Ile His Leu Thr Pro Val Leu Thr Ser Ser

20 25 30  
 Ile Leu Asn Gln Leu Thr Gly Arg Asn Leu Phe Phe Lys Cys Glu Leu  
 35 40 45  
 Phe Gln Lys Thr Gly Ser Phe Lys Ile Arg Gly Ala Leu Asn Ala Val  
 50 55 60  
 Arg Ser Leu Val Pro Asp Ala Leu Glu Arg Lys Pro Lys Ala Val Val  
 65 70 75 80  
 Thr His Ser Ser Gly Asn His Gly Gln Ala Leu Thr Tyr Ala Ala Lys  
 85 90 95  
 Leu Glu Gly Ile Pro Ala Tyr Ile Val Val Pro Gln Thr Ala Pro Asp  
 100 105 110  
 Cys Lys Lys Leu Ala Ile Gln Ala Tyr Gly Ala Ser Ile Val Tyr Cys  
 115 120 125  
 Glu Pro Ser Asp Glu Ser Arg Glu Asn Val Ala Lys Arg Val Thr Glu  
 130 135 140  
 Glu Thr Glu Gly Ile Met Val His Pro Asn Gln Glu Pro Ala Val Ile  
 145 150 155 160  
 Ala Gly Gln Gly Thr Ile Ala Leu Glu Val Leu Asn Gln Val Pro Leu  
 165 170 175  
 Val Asp Ala Leu Val Val Pro Val Gly Gly Gly Met Leu Ala Gly  
 180 185 190  
 Ile Ala Ile Thr Val Lys Ala Leu Lys Pro Ser Val Lys Val Tyr Ala  
 195 200 205  
 Ala Glu Pro Ser Asn Ala Asp Asp Cys Tyr Gln Ser Lys Leu Lys Gly  
 210 215 220  
 Lys Leu Met Pro Asn Leu Tyr Pro Pro Glu Thr Ile Ala Asp Gly Val  
 225 230 235 240  
 Lys Ser Ser Ile Gly Leu Asn Thr Trp Pro Ile Ile Arg Asp Leu Val  
 245 250 255  
 Asp Asp Ile Phe Thr Val Thr Glu Asp Glu Ile Lys Cys Ala Thr Gln  
 260 265 270  
 Leu Val Trp Glu Arg Met Lys Leu Leu Ile Glu Pro Thr Ala Gly Val  
 275 280 285  
 Gly Val Ala Ala Val Leu Ser Gln His Phe Gln Thr Val Ser Pro Glu  
 290 295 300  
 Val Lys Asn Ile Cys Ile Val Leu Ser Gly Gly Asn Val Asp Leu Thr  
 305 310 315 320  
 Ser Ser Ile Thr Trp Val Lys Gln Ala Glu Arg Pro Ala Ser Tyr Gln  
 325 330 335  
 Ser Val Ser Val  
 340

&lt;210&gt; 302

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

Met Asn Arg Leu Phe Gly Lys Ala Lys Pro Lys Ala Pro Arg Pro Ser  
 1 5 10 15  
 Leu Thr Asp Cys Ile Gly Thr Val Asp Ser Arg Ala Glu Ser Ile Asp  
 20 25 30  
 Lys Lys Ile Ser Arg Leu Asp Ala Glu Leu Val Lys Tyr Lys Asp Gln  
 35 40 45  
 Ile Lys Lys Met Arg Glu Gly Pro Ala Lys Asn Met Val Lys Gln Lys  
 50 55 60  
 Ala Leu Arg Val Leu Lys Gln Lys Arg Met Tyr Glu Gln Gln Arg Asp  
 65 70 75 80  
 Asn Leu Ala Asn Ser His Ser Thr Trp Thr Gly His Tyr Thr Ile Gln  
 85 90 95  
 Ser Leu Lys Asp Thr Lys Thr Thr Val Asp Ala Met Lys Leu Gly Val  
 100 105 110  
 Lys Glu Met Lys Lys Ala Tyr Lys Pro Val Lys Ile Asp Gln Ile Glu  
 115 120 125  
 Asp Leu Gln Asp Gln Leu Glu Asp Met Met Glu Asp Ala Asn Glu Ile  
 130 135 140  
 Gln Glu Ala Leu Ser Arg Ser Tyr Gly Thr Pro Glu Leu Asp Glu Asp  
 145 150 155 160  
 Asp Leu Glu Ala Glu Leu Asp Ala Leu Gly Asp Glu Leu Leu Ala Asp  
 165 170 175

Glu Asp Ser Ser Tyr Leu Asp Glu Ala Ala Ser Ala Pro Ala Ile Pro  
 180 185 190  
 Glu Gly Val Pro Thr Asp Thr Lys Asn Lys Asp Gly Val Leu Val Asp  
 195 200 205  
 Glu Phe Gly Leu Pro Gln Ile Pro Ala Ser  
 210 215

<210> 303  
 <211> 635  
 <212> PRT  
 <213> Homo sapiens  
 <400> 303

Met Ala Pro Pro Leu Leu Leu Leu Leu Ala Ser Gly Ala Ala Ala  
 1 5 10 15  
 Cys Pro Leu Pro Cys Val Cys Gln Asn Leu Ser Glu Ser Leu Ser Thr  
 20 25 30  
 Leu Cys Ala His Arg Gly Leu Leu Phe Val Pro Pro Asn Val Asp Arg  
 35 40 45  
 Arg Thr Val Glu Leu Arg Leu Ala Asp Asn Phe Ile Gln Ala Leu Gly  
 50 55 60  
 Pro Pro Asp Phe Arg Asn Met Thr Gly Leu Val Asp Leu Thr Leu Ser  
 65 70 75 80  
 Arg Asn Ala Ile Thr Arg Ile Gly Ala Arg Ala Phe Gly Asp Leu Glu  
 85 90 95  
 Ser Leu Arg Ser Leu His Leu Asp Gly Asn Arg Leu Val Glu Leu Gly  
 100 105 110  
 Thr Gly Ser Leu Arg Gly Pro Val Asn Leu Gln His Leu Ile Leu Ser  
 115 120 125  
 Gly Asn Gln Leu Gly Arg Ile Ala Pro Gly Ala Phe Asp Asp Phe Leu  
 130 135 140  
 Glu Ser Leu Glu Asp Leu Asp Leu Ser Tyr Asn Asn Leu Arg Gln Val  
 145 150 155 160  
 Pro Trp Ala Gly Ile Gly Ala Met Pro Ala Leu His Thr Leu Asn Leu  
 165 170 175  
 Asp His Asn Leu Ile Asp Ala Leu Pro Gly Ala Phe Ala Gln Leu  
 180 185 190  
 Gly Gln Leu Ser Arg Leu Asp Leu Thr Ser Asn Arg Leu Ala Thr Leu  
 195 200 205  
 Ala Pro Asp Pro Leu Phe Ser Arg Gly Arg Asp Ala Glu Ala Ser Pro  
 210 215 220  
 Ala Pro Leu Val Leu Ser Phe Ser Gly Asn Pro Leu His Cys Asn Cys  
 225 230 235 240  
 Glu Leu Leu Trp Leu Arg Arg Leu Ala Arg Pro Asp Asp Leu Glu Thr  
 245 250 255  
 Cys Ala Ser Pro Pro Gly Leu Ala Gly Arg Tyr Phe Trp Ala Val Pro  
 260 265 270  
 Glu Gly Glu Phe Ser Cys Glu Pro Pro Leu Ile Ala Arg His Thr Gln  
 275 280 285  
 Arg Leu Trp Val Leu Glu Gly Gln Arg Ala Thr Leu Arg Cys Arg Ala  
 290 295 300  
 Leu Gly Asp Pro Ala Pro Thr Met His Trp Val Gly Pro Asp Asp Arg  
 305 310 315 320  
 Leu Val Gly Asn Ser Ser Arg Ala Arg Ala Phe Pro Asn Gly Thr Leu  
 325 330 335  
 Glu Ile Gly Val Thr Gly Ala Gly Asp Ala Gly Gly Tyr Thr Cys Ile  
 340 345 350  
 Ala Thr Asn Pro Ala Gly Glu Ala Thr Ala Arg Val Glu Leu Arg Val  
 355 360 365  
 Leu Ala Leu Pro His Gly Gly Asn Ser Ser Ala Glu Gly Gly Arg Pro  
 370 375 380  
 Gly Pro Ser Asp Ile Ala Ala Ser Ala Arg Thr Ala Ala Glu Gly Glu  
 385 390 395 400  
 Gly Thr Leu Glu Ser Glu Pro Ala Val Gln Val Thr Glu Val Thr Ala  
 405 410 415  
 Thr Ser Gly Leu Val Ser Trp Gly Pro Gly Arg Pro Ala Asp Pro Val  
 420 425 430  
 Trp Met Phe Gln Ile Gln Tyr Asn Ser Ser Glu Asp Glu Thr Leu Ile  
 435 440 445  
 Tyr Arg Ile Val Pro Ala Ser Ser His His Phe Leu Leu Lys His Leu

450 Val Pro Gly Ala Asp Tyr Asp Leu Cys Leu Leu 460  
 465 Ala Gly Pro Ser Asp Leu Thr Ala Thr Arg Leu Leu Gly Cys Ala His  
 470 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635  
 Phe Ser Thr Leu Pro Ala Ser Pro Leu Cys His Ala Leu Gln Ala His  
 Val Leu Gly Gly Thr Leu Thr Val Ala Val Gly Gly Val Leu Val Ala  
 Ala Leu Leu Val Phe Thr Val Ala Leu Leu Val Arg Gly Arg Gly Ala  
 Gly Asn Gly Arg Leu Pro Leu Lys Leu Ser His Val Gln Ser Gln Thr  
 Asn Gly Gly Pro Ser Pro Thr Pro Lys Ala His Pro Pro Arg Ser Pro  
 Pro Pro Arg Pro Gln Arg Ser Cys Ser Leu Asp Leu Gly Asp Ala Gly  
 Cys Tyr Gly Tyr Ala Arg Arg Leu Gly Gly Ala Trp Ala Arg Arg Ser  
 His Ser Val His Gly Gly Leu Leu Gly Ala Gly Cys Arg Gly Val Gly  
 Gly Ser Ala Glu Arg Leu Glu Glu Ser Val Val  
 <210> 304  
 <211> 498  
 <212> PRT  
 <213> Homo sapiens  
 <400> 304  
 Met Asp Val Thr Asp His Tyr Glu Asp Val Arg Lys Ile Tyr Asp Asp  
 1 5 10 15  
 Phe Leu Lys Asn Ser Asn Met Leu Asp Leu Ile Asp Val Tyr Gln Lys  
 20 25 30  
 Cys Arg Ala Leu Thr Ser Asn Cys Glu Asn Tyr Asn Thr Val Ser Pro  
 35 40 45  
 Ser Gln Leu Leu Asp Phe Leu Ser Gly Lys Gln Tyr Ala Val Gly Asp  
 50 55 60  
 Glu Thr Asp Leu Ser Ile Pro Thr Ser Pro Thr Ser Lys Tyr Asn Arg  
 65 70 75 80  
 Asp Asn Glu Lys Val Gln Leu Leu Ala Arg Lys Ile Ile Phe Ser Tyr  
 85 90 95  
 Leu Asn Leu Leu Val Asn Ser Lys Asn Asp Leu Ala Val Ala Tyr Ile  
 100 105 110  
 Leu Asn Ile Pro Asp Arg Gly Leu Gly Arg Glu Ala Phe Thr Asp Leu  
 115 120 125  
 Lys His Ala Ala Arg Glu Lys Gln Met Ser Ile Phe Leu Val Ala Thr  
 130 135 140  
 Ser Phe Ile Arg Thr Ile Glu Leu Gly Gly Lys Gly Tyr Ala Pro Pro  
 145 150 155 160  
 Pro Ser Asp Pro Leu Arg Thr His Val Lys Gly Leu Ser Asn Phe Ile  
 165 170 175  
 Asn Phe Ile Asp Lys Leu Asp Glu Ile Leu Gly Glu Ile Pro Asn Pro  
 180 185 190  
 Ser Ile Ala Gly Gly Gln Ile Leu Ser Val Ile Lys Met Gln Leu Ile  
 195 200 205  
 Lys Gly Gln Asn Ser Arg Asp Pro Phe Cys Lys Ala Ile Glu Glu Val  
 210 215 220  
 Ala Gln Asp Leu Asp Leu Arg Ile Lys Asn Ile Ile Asn Ser Gln Glu  
 225 230 235 240  
 Gly Val Val Ala Leu Ser Thr Thr Asp Ile Ser Pro Ala Arg Pro Lys  
 245 250 255  
 Ser His Ala Ile Asn His Gly Thr Ala Tyr Cys Gly Arg Asp Thr Val  
 260 265 270  
 Lys Ala Leu Leu Val Leu Leu Asp Glu Glu Ala Ala Asn Ala Pro Thr  
 275 280 285  
 Lys Asn Lys Ala Glu Leu Leu Tyr Asp Glu Glu Asp Thr Ile His His  
 290 295 300  
 His Gly Thr Ser Ile Leu Thr Leu Phe Arg Ser Pro Thr Gln Val Asn  
 305 310 315 320



Asn Leu Ile Lys Pro Leu Arg Glu Arg Ile Cys Val Ser Met Gln Glu  
 325 330  
 Lys Lys Ile Lys Met Lys Gln Thr Leu Ile Arg Ser Gln Phe Ala Cys  
 340 345 350  
 Thr Tyr Lys Asp Asp Tyr Met Ile Ser Lys Asp Asn Trp Asn Asn Val  
 355 360 365  
 Asn Leu Ala Ser Lys Pro Leu Cys Val Leu Tyr Met Glu Asn Asp Leu  
 370 375 380  
 Ser Glu Gly Val Asn Pro Ser Val Gly Arg Ser Thr Ile Gly Thr Ser  
 385 390 395 400  
 Phe Gly Asn Val His Leu Asp Arg Ser Lys Asn Glu Lys Val Ser Arg  
 405 410 415  
 Lys Ser Thr Ser Gln Thr Gly Asn Lys Ser Ser Lys Arg Lys Gln Val  
 420 425 430  
 Asp Leu Asp Gly Glu Asn Ile Leu Cys Asp Asn Arg Asn Glu Pro Pro  
 435 440 445  
 Gln His Lys Asn Ala Lys Ile Pro Lys Lys Ser Asn Asp Ser Gln Asn  
 450 455 460  
 Arg Leu Tyr Gly Lys Leu Ala Lys Val Ala Lys Ser Asn Lys Cys Thr  
 465 470 475 480  
 Ala Lys Asp Lys Leu Ile Ser Gly Gln Ala Lys Leu Thr Gln Phe Phe  
 485 490 495  
 Arg Leu

<210> 305  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens  
 <400> 305

Met Arg Asp Ile Ala Ile Leu Lys Glu Lys Gln Glu Lys Glu Ile Gln  
 1 5 10 15  
 Thr Leu Gln Glu Thr Lys Lys Val Gln Ala Glu Thr Ala Ser Lys  
 20 25 30  
 Thr Arg Glu Val Gln Ala Gln Leu Gln Glu Lys Arg Leu Leu Glu  
 35 40 45  
 Lys Gln Leu Ser Glu Pro Asp Arg Arg Leu Leu Gly Lys Arg Lys Arg  
 50 55 60  
 Arg Glu Leu Asn Met Lys Ala Gln Ala Leu Lys Leu Ala Ala Lys Arg  
 65 70 75 80  
 Phe Ile Phe Glu Tyr Ser Cys Gly Ile Asn Arg Glu Asn Gln Gln Phe  
 85 90 95  
 Lys Lys Glu Leu Leu Gln Leu Ile Glu Gln Ala Gln Lys Leu Thr Ala  
 100 105 110  
 Thr Gln Ser His Leu Glu Asn Arg Lys Gln Gln Leu Gln Gln Glu Gln  
 115 120 125  
 Trp Tyr Leu Glu Ser Leu Ile Gln Ala Arg Gln Arg Leu Gln Gly Ser  
 130 135 140  
 His Asn Gln Cys Leu Asn Arg Gln Asp Val Pro Lys Thr Thr Pro Ser  
 145 150 155 160  
 Leu Pro Gln Gly Thr Lys Ser Arg Ile Asn Pro Lys  
 165 170

<210> 306  
 <211> 330  
 <212> PRT  
 <213> Homo sapiens  
 <400> 306

Met Arg Arg Pro Ser Val Arg Ala Ala Gly Leu Val Leu Cys Thr Leu  
 1 5 10 15  
 Cys Tyr Leu Leu Val Gly Ala Ala Val Phe Asp Ala Leu Glu Ser Glu  
 20 25 30  
 Ala Glu Ser Gly Arg Gln Arg Leu Leu Val Gln Lys Arg Gly Ala Leu  
 35 40 45  
 Arg Arg Lys Phe Gly Phe Ser Ala Glu Asp Tyr Arg Glu Leu Glu Arg  
 50 55 60  
 Leu Ala Leu Gln Ala Glu Pro His Arg Ala Gly Arg Gln Trp Lys Phe  
 65 70 75 80  
 Pro Gly Ser Phe Tyr Phe Ala Ile Thr Val Ile Thr Thr Ile Gly Tyr

85 90 95  
 Gly His Ala Ala Pro Gly Thr Asp Ser Gly Lys Val Phe Cys Met Phe  
 100 105 110  
 Tyr Ala Leu Leu Gly Ile Pro Leu Thr Leu Val Thr Phe Gln Ser Leu  
 115 120 125  
 Gly Glu Arg Leu Asn Ala Val Arg Arg Leu Leu Leu Ala Ala Lys  
 130 135 140  
 Cys Cys Leu Gly Leu Arg Trp Thr Cys Val Ser Thr Glu Asn Leu Val  
 145 150 155 160  
 Val Ala Gly Leu Leu Ala Cys Ala Ala Thr Leu Ala Leu Gly Ala Val  
 165 170 175  
 Ala Phe Ser His Phe Glu Gly Trp Thr Phe Phe His Ala Tyr Tyr Tyr  
 180 185 190  
 Cys Phe Ile Thr Leu Thr Thr Ile Gly Phe Gly Asp Phe Val Ala Leu  
 195 200 205  
 Gln Ser Gly Glu Ala Leu Gln Arg Lys Leu Pro Tyr Val Ala Phe Ser  
 210 215 220  
 Phe Leu Tyr Ile Leu Leu Gly Leu Thr Val Ile Gly Ala Phe Leu Asn  
 225 230 235 240  
 Leu Val Val Leu Arg Phe Leu Val Ala Ser Ala Asp Trp Pro Glu Arg  
 245 250 255  
 Ala Ala Arg Pro Pro Ser Pro Arg Pro Pro Gly Ala Pro Glu Ser Arg  
 260 265 270  
 Gly Leu Trp Leu Pro Arg Arg Pro Ala Arg Ser Val Gly Ser Ala Ser  
 275 280 285  
 Val Phe Cys His Val His Lys Leu Glu Arg Cys Ala Arg Asp Asn Leu  
 290 295 300  
 Gly Phe Ser Pro Pro Ser Ser Pro Gly Val Val Arg Gly Gly Gln Ala  
 305 310 315 320  
 Pro Arg Pro Gly Ala Arg Trp Lys Ser Ile  
 325 330

<210> 307  
 <211> 741  
 <212> PRT  
 <213> Homo sapiens  
 <400> 307

Met Glu Ser Arg Asp His Asn Asn Pro Gln Glu Gly Pro Thr Ser Ser  
 1 5 10 15  
 Ser Gly Arg Arg Ala Ala Val Glu Asp Asn His Leu Leu Ile Lys Ala  
 20 25 30  
 Val Gln Asn Glu Asp Val Asp Leu Val Gln Gln Leu Leu Glu Gly Gly  
 35 40 45  
 Ala Asn Val Asn Phe Gln Glu Glu Glu Gly Gly Trp Thr Pro Leu His  
 50 55 60  
 Asn Ala Val Gln Met Ser Arg Glu Asp Ile Val Glu Leu Leu Leu Arg  
 65 70 75 80  
 His Gly Ala Asp Pro Val Leu Arg Lys Lys Asn Gly Ala Thr Pro Phe  
 85 90 95  
 Ile Leu Ala Ala Ile Ala Gly Ser Val Lys Leu Leu Lys Leu Phe Leu  
 100 105 110  
 Ser Lys Gly Ala Asp Val Asn Glu Cys Asp Phe Tyr Gly Phe Thr Ala  
 115 120 125  
 Phe Met Glu Ala Ala Val Tyr Gly Lys Val Lys Ala Leu Lys Phe Leu  
 130 135 140  
 Tyr Lys Arg Gly Ala Asn Val Asn Leu Arg Arg Lys Thr Lys Glu Asp  
 145 150 155 160  
 Gln Glu Arg Leu Arg Lys Gly Gly Ala Thr Ala Leu Met Asp Ala Ala  
 165 170 175  
 Glu Lys Gly His Val Glu Val Leu Lys Ile Leu Leu Asp Glu Met Gly  
 180 185 190  
 Ala Asp Val Asn Ala Cys Asp Asn Met Gly Arg Asn Ala Leu Ile His  
 195 200 205  
 Ala Leu Leu Ser Ser Asp Asp Ser Asp Val Glu Ala Ile Thr His Leu  
 210 215 220  
 Leu Leu Asp His Gly Ala Asp Val Asn Val Arg Gly Glu Arg Gly Lys  
 225 230 235 240  
 Thr Pro Leu Ile Leu Ala Val Glu Lys Lys His Leu Gly Leu Val Gln  
 245 250 255

Arg Leu Leu Glu Gln Glu His Ile Glu Ile Asn Asp Thr Asp Ser Asp  
 260 265 270  
 Gly Lys Thr Ala Leu Leu Leu Ala Val Glu Leu Lys Leu Lys Lys Ile  
 275 280 285  
 Ala Glu Leu Leu Cys Lys Arg Gly Ala Ser Thr Asp Cys Gly Asp Leu  
 290 295 300  
 Val Met Thr Ala Arg Arg Asn Tyr Asp His Ser Leu Val Lys Val Leu  
 305 310 315 320  
 Leu Ser His Gly Ala Lys Glu Asp Phe His Pro Pro Ala Glu Asp Trp  
 325 330 335  
 Lys Pro Gln Ser Ser His Trp Gly Ala Ala Leu Lys Asp Leu His Arg  
 340 345 350  
 Ile Tyr Arg Pro Met Ile Gly Lys Leu Lys Phe Phe Ile Asp Glu Lys  
 355 360 365  
 Tyr Lys Ile Ala Asp Thr Ser Glu Gly Gly Ile Tyr Leu Gly Phe Tyr  
 370 375 380  
 Glu Lys Gln Glu Val Ala Val Lys Thr Phe Cys Glu Gly Ser Pro Arg  
 385 390 395 400  
 Ala Gln Arg Glu Val Ser Cys Leu Gln Ser Ser Arg Glu Asn Ser His  
 405 410 415  
 Leu Val Thr Phe Tyr Gly Ser Glu Ser His Arg Gly His Leu Phe Val  
 420 425 430  
 Cys Val Thr Leu Cys Glu Gln Thr Leu Glu Ala Cys Leu Asp Val His  
 435 440 445  
 Arg Gly Glu Asp Val Glu Asn Glu Glu Asp Glu Phe Ala Arg Asn Val  
 450 455 460  
 Leu Ser Ser Ile Phe Lys Ala Val Gln Glu Leu His Leu Ser Cys Gly  
 465 470 475 480  
 Tyr Thr His Gln Asp Leu Gln Pro Gln Asn Ile Leu Ile Asp Ser Lys  
 485 490 495  
 Lys Ala Ala His Leu Ala Asp Phe Asp Lys Ser Ile Lys Trp Ala Gly  
 500 505 510  
 Asp Pro Gln Glu Val Lys Arg Asp Leu Glu Asp Leu Gly Arg Leu Val  
 515 520 525  
 Leu Tyr Val Val Lys Lys Gly Ser Ile Ser Phe Glu Asp Leu Lys Ala  
 530 535 540  
 Gln Ser Asn Glu Glu Val Val Gln Leu Ser Pro Asp Glu Glu Thr Lys  
 545 550 555 560  
 Asp Leu Ile His Arg Leu Phe His Pro Gly Glu His Val Arg Asp Cys  
 565 570 575  
 Leu Ser Asp Leu Leu Gly His Pro Phe Phe Trp Thr Trp Glu Ser Arg  
 580 585 590  
 Tyr Arg Thr Leu Arg Asn Val Gly Asn Glu Ser Asp Ile Lys Thr Arg  
 595 600 605  
 Lys Ser Glu Ser Glu Ile Leu Arg Leu Leu Gln Pro Gly Pro Ser Glu  
 610 615 620  
 His Ser Lys Ser Phe Asp Lys Trp Thr Thr Lys Ile Asn Glu Cys Val  
 625 630 635 640  
 Met Lys Lys Met Asn Lys Phe Tyr Glu Lys Arg Gly Asn Phe Tyr Gln  
 645 650 655  
 Asn Thr Val Gly Asp Leu Leu Lys Phe Ile Arg Asn Leu Gly Glu His  
 660 665 670  
 Ile Asp Glu Glu Lys His Lys Lys Met Lys Leu Lys Ile Gly Asp Pro  
 675 680 685  
 Ser Leu Tyr Phe Gln Lys Thr Phe Pro Asp Leu Val Ile Tyr Val Tyr  
 690 695 700  
 Thr Lys Leu Gln Asn Thr Glu Tyr Arg Lys His Phe Pro Gln Thr His  
 705 710 715 720  
 Ser Pro Asn Lys Pro Gln Cys Asp Gly Ala Gly Gly Ala Ser Gly Leu  
 725 730 735  
 Ala Ser Pro Gly Cys  
 740

&lt;210&gt; 308

&lt;211&gt; 651

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

Met Ser Gly Val Arg Ala Val Arg Ile Ser Ile Glu Ser Ala Cys Glu

1	Lys	Gln	Val	His	5	Glu	Val	Gly	Leu	Asp	10	Gly	Thr	Glu	Thr	15	Tyr	Leu	Pro
			20	Met						25							30		
	Pro	Leu	Ser		Ser	Gln	Asn	Leu	Ala	Arg	Leu	Ala	Gln	Arg	Ile	Asp			
			35						40										
	Phe	Ser	Gln	Gly	Ser	Gly	Ser	Glu	Glu	Glu	Glu	Ala	Ala	Gly	Thr	Glu			
			50				55							60					
	Gly	Asp	Ala	Gln	Glu	Trp	Pro	Gly	Ala	Gly	Ser	Ser	Ala	Asp	Gln	Asp			
			65			70										80			
	Asp	Glu	Glu	Gly	Val	Val	Lys	Phe	Gln	Pro	Ser	Leu	Trp	Pro	Trp	Asp			
					85					90						95			
	Ser	Val	Arg	Asn	Asn	Leu	Arg	Ser	Ala	Leu	Thr	Glu	Met	Cys	Val	Leu			
				100					105										
	Tyr	Asp	Val	Leu	Ser	Ile	Val	Arg	Asp	Lys	Lys	Phe	Met	Thr	Leu	Asp			
			115						120					125					
	Pro	Val	Ser	Gln	Asp	Ala	Leu	Pro	Pro	Lys	Gln	Asn	Pro	Gln	Thr	Leu			
			130				135							140					
	Gln	Leu	Ile	Ser	Lys	Lys	Lys	Ser	Leu	Ala	Gly	Ala	Ala	Gln	Ile	Leu			
			145			150										160			
	Leu	Lys	Gly	Ala	Glu	Arg	Leu	Thr	Lys	Ser	Val	Thr	Glu	Asn	Gln	Glu			
				165						170						175			
	Asn	Lys	Leu	Gln	Arg	Asp	Phe	Asn	Ser	Glu	Leu	Leu	Arg	Leu	Arg	Gln			
			180						185							190			
	His	Trp	Lys	Leu	Arg	Lys	Val	Gly	Asp	Lys	Ile	Leu	Gly	Asp	Leu	Ser			
			195					200						205					
	Tyr	Arg	Ser	Ala	Gly	Ser	Leu	Phe	Pro	His	His	Gly	Thr	Phe	Glu	Val			
			210				215							220					
	Ile	Lys	Asn	Thr	Asp	Leu	Asp	Leu	Asp	Lys	Lys	Ile	Pro	Glu	Asp	Tyr			
			225			230								235		240			
	Cys	Pro	Leu	Asp	Val	Gln	Ile	Pro	Ser	Asp	Leu	Glu	Gly	Ser	Ala	Tyr			
				245						250					255				
	Ile	Lys	Val	Ser	Ile	Gln	Lys	Gln	Ala	Pro	Asp	Ile	Gly	Asp	Leu	Gly			
			260						265						270				
	Thr	Val	Asn	Leu	Phe	Lys	Arg	Pro	Leu	Pro	Lys	Ser	Lys	Pro	Gly	Ser			
			275					280						285					
	Pro	His	Trp	Gln	Thr	Lys	Leu	Glu	Ala	Ala	Gln	Asn	Val	Leu	Leu	Cys			
			290				295						300						
	Lys	Glu	Ile	Phe	Ala	Gln	Leu	Ser	Arg	Glu	Ala	Val	Gln	Ile	Lys	Ser			
			305			310							315			320			
	Gln	Val	Pro	His	Ile	Val	Val	Lys	Asn	Gln	Ile	Ile	Ser	Gln	Pro	Phe			
				325						330					335				
	Pro	Ser	Leu	Gln	Leu	Ser	Ile	Ser	Leu	Cys	His	Ser	Ser	Asn	Asp	Lys			
			340						345						350				
	Lys	Ser	Gln	Lys	Phe	Ala	Thr	Glu	Lys	Gln	Cys	Pro	Glu	Asp	His	Leu			
			355					360						365					
	Tyr	Val	Leu	Glu	His	Asn	Leu	His	Leu	Leu	Ile	Arg	Glu	Phe	His	Lys			
			370			375							380						
	Gln	Thr	Leu	Ser	Ser	Ile	Met	Met	Pro	His	Pro	Ala	Ser	Ala	Pro	Phe			
			385			390					395					400			
	Gly	His	Lys	Arg	Met	Arg	Leu	Ser	Gly	Pro	Gln	Ala	Phe	Asp	Lys	Asn			
				405						410					415				
	Glu	Ile	Asn	Ser	Leu	Gln	Ser	Ser	Glu	Gly	Leu	Leu	Glu	Lys	Ile	Ile			
			420						425						430				
	Lys	Gln	Ala	Lys	His	Ile	Phe	Leu	Arg	Ser	Arg	Ala	Ala	Ala	Thr	Ile			
			435					440						445					
	Asp	Ser	Leu	Ala	Ser	Arg	Ile	Glu	Asp	Pro	Gln	Ile	Gln	Ala	His	Trp			
			450				455							460					
	Ser	Asn	Ile	Asn	Asp	Val	Tyr	Glu	Ser	Ser	Val	Lys	Val	Leu	Ile	Thr			
			465			470					475					480			
	Ser	Gln	Gly	Tyr	Glu	Gln	Ile	Cys	Lys	Ser	Ile	Gln	Leu	Gln	Leu	Asn			
				485						490					495				
	Ile	Gly	Val	Glu	Gln	Ile	Arg	Val	Val	His	Arg	Asp	Gly	Arg	Val	Ile			
			500						505						510				
	Thr	Leu	Ser	Tyr	Gln	Glu	Gln	Glu	Gln	Asp	Phe	Leu	Leu	Ser	Gln				
			515					520						525					
	Met	Ser	Gln	His	Gln	Val	His	Ala	Val	Gln	Gln	Leu	Ala	Lys	Val	Met			
			530				535							540					
	Gly	Trp	Gln	Val	Leu	Ser	Phe	Ser	Asn	His	Val	Gly	Leu	Gly	Pro	Ile			
			545			550					555					560			

Glu Ser Ile Gly Asn Ala Ser Ala Ile Thr Val Ala Ser Pro Ser Gly  
 565 570 575  
 Asp Tyr Ala Ile Ser Val Arg Asn Gly Pro Glu Ser Gly Ser Lys Ile  
 580 585 590  
 Met Val Gln Phe Pro Arg Asn Gln Cys Lys Asp Leu Pro Lys Ser Asp  
 595 600 605  
 Val Leu Gln Asp Asn Lys Trp Ser His Leu Arg Gly Pro Phe Lys Glu  
 610 615 620  
 Val Gln Trp Asn Lys Met Glu Gly Arg Asn Phe Val Tyr Lys Met Glu  
 625 630 635 640  
 Leu Leu Met Ser Ala Leu Ser Pro Cys Leu Leu  
 645 650

<210> 309  
 <211> 1496  
 <212> PRT  
 <213> Homo sapiens  
 <400> 309

Met Met Ala Asn Trp Ala Glu Ala Arg Pro Leu Leu Ile Leu Ile Val  
 1 5 10 15  
 Leu Leu Gly Gln Phe Val Ser Ile Lys Ala Gln Glu Glu Asp Glu Asp  
 20 25 30  
 Glu Gly Tyr Gly Glu Glu Ile Ala Cys Thr Gln Asn Gly Gln Met Tyr  
 35 40 45  
 Leu Asn Arg Asp Ile Trp Lys Pro Ala Pro Cys Gln Ile Cys Val Cys  
 50 55 60  
 Asp Asn Gly Ala Ile Leu Cys Asp Lys Ile Glu Cys Gln Asp Val Leu  
 65 70 75 80  
 Asp Cys Ala Asp Pro Val Thr Pro Pro Gly Glu Cys Cys Pro Val Cys  
 85 90 95  
 Ser Gln Thr Pro Gly Gly Gly Asn Thr Asn Phe Gly Arg Gly Arg Lys  
 100 105 110  
 Gly Gln Lys Gly Glu Pro Gly Leu Val Pro Val Val Thr Gly Ile Arg  
 115 120 125  
 Gly Arg Pro Gly Pro Ala Gly Pro Pro Gly Ser Gln Gly Pro Arg Gly  
 130 135 140  
 Glu Arg Gly Pro Lys Gly Arg Pro Gly Pro Arg Gly Pro Gln Gly Ile  
 145 150 155 160  
 Asp Gly Glu Pro Gly Val Pro Gly Gln Pro Gly Ala Pro Gly Pro Pro  
 165 170 175  
 Gly His Pro Ser His Pro Gly Pro Asp Gly Leu Ser Arg Pro Phe Ser  
 180 185 190  
 Ala Gln Met Ala Gly Leu Asp Glu Lys Ser Gly Leu Gly Ser Gln Val  
 195 200 205  
 Gly Leu Met Pro Gly Ser Val Gly Pro Val Gly Pro Arg Gly Pro Gln  
 210 215 220  
 Gly Leu Gln Gly Gln Gln Gly Gly Ala Gly Pro Thr Gly Pro Pro Gly  
 225 230 235 240  
 Glu Pro Gly Asp Pro Gly Pro Met Gly Pro Ile Gly Ser Arg Gly Pro  
 245 250 255  
 Glu Gly Pro Pro Gly Lys Pro Gly Glu Asp Gly Glu Pro Gly Arg Asn  
 260 265 270  
 Gly Asn Pro Gly Glu Val Gly Phe Ala Gly Ser Pro Gly Ala Arg Gly  
 275 280 285  
 Phe Pro Gly Ala Pro Gly Leu Pro Gly Leu Lys Gly His Arg Gly His  
 290 295 300  
 Lys Gly Leu Glu Gly Pro Lys Gly Glu Val Gly Ala Pro Gly Ser Lys  
 305 310 315 320  
 Gly Glu Ala Gly Pro Thr Gly Pro Met Gly Ala Met Gly Pro Leu Gly  
 325 330 335  
 Pro Arg Gly Met Pro Gly Glu Arg Gly Arg Leu Gly Pro Gln Gly Ala  
 340 345 350  
 Pro Gly Gln Arg Gly Ala His Gly Met Pro Gly Lys Pro Gly Pro Met  
 355 360 365  
 Gly Pro Leu Gly Ile Pro Gly Ser Ser Gly Phe Pro Gly Asn Pro Gly  
 370 375 380  
 Met Lys Gly Glu Ala Gly Pro Thr Gly Ala Arg Gly Pro Glu Gly Pro  
 385 390 395 400  
 Gln Gly Gln Arg Gly Glu Thr Gly Pro Pro Gly Pro Val Gly Ser Pro

				405					410				415
Gly	Leu	Pro	Gly	Ala	Ile	Gly	Thr	Asp	Gly	Thr	Pro	Gly	Pro
			420					425				430	Lys
Pro	Thr	Gly	Ser	Pro	Gly	Thr	Ser	Gly	Pro	Pro	Gly	Ser	Ala
		435					440				445		Gly
Pro	Gly	Ser	Pro	Gly	Pro	Gln	Gly	Ser	Thr	Gly	Pro	Gln	Gly
	450					455					460		Asn
Gly	Leu	Pro	Gly	Asp	Pro	Gly	Phe	Lys	Gly	Glu	Ala	Gly	Pro
465				470						475			Lys
Glu	Pro	Gly	Pro	His	Gly	Ile	Gln	Gly	Pro	Ile	Gly	Pro	Gly
				485					490				495
Glu	Gly	Lys	Arg	Gly	Pro	Arg	Gly	Asp	Pro	Gly	Thr	Leu	Gly
			500					505					510
Gly	Pro	Val	Gly	Glu	Arg	Gly	Ala	Pro	Gly	Asn	Arg	Gly	Phe
		515					520					525	Pro
Ser	Asp	Gly	Leu	Pro	Gly	Pro	Lys	Gly	Ala	Gln	Gly	Glu	Arg
	530					535					540		Gly
Val	Gly	Ser	Ser	Gly	Pro	Lys	Gly	Ser	Gln	Gly	Asp	Pro	Gly
545				550						555			Arg
Gly	Glu	Pro	Gly	Leu	Pro	Gly	Ala	Arg	Gly	Leu	Thr	Gly	Asn
				565					570				Pro
Val	Gln	Gly	Pro	Glu	Gly	Lys	Leu	Gly	Pro	Leu	Gly	Ala	Pro
			580					585					590
Asp	Gly	Arg	Pro	Gly	Pro	Pro	Gly	Ser	Ile	Gly	Ile	Lys	Gly
	595						600					605	Gln
Gly	Thr	Met	Gly	Leu	Pro	Gly	Pro	Lys	Gly	Ser	Asn	Gly	Asp
	610					615					620		Pro
Lys	Pro	Gly	Glu	Ala	Gly	Asn	Pro	Gly	Val	Pro	Gly	Gln	Arg
625				630						635			Gly
Pro	Gly	Lys	Asp	Gly	Lys	Val	Gly	Pro	Tyr	Gly	Pro	Pro	Gly
			645						650				Pro
Gly	Leu	Arg	Gly	Glu	Arg	Gly	Glu	Gln	Gly	Pro	Pro	Gly	Pro
			660					665					670
Phe	Gln	Gly	His	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Glu	Gly
	675					680						685	Lys
Pro	Gly	Asp	Gln	Gly	Val	Pro	Gly	Gly	Pro	Gly	Ala	Val	Gly
	690					695					700		Pro
Gly	Pro	Arg	Gly	Glu	Arg	Gly	Asn	Pro	Gly	Glu	Arg	Gly	Glu
705				710						715			Pro
Ile	Thr	Gly	Leu	Pro	Gly	Glu	Lys	Gly	Met	Ala	Gly	Gly	His
				725					730				735
Asp	Gly	Pro	Lys	Gly	Ser	Pro	Gly	Pro	Gly	Ser	Gly	Thr	Pro
			740					745					750
Gly	Pro	Pro	Gly	Leu	Gln	Gly	Met	Pro	Gly	Glu	Arg	Gly	Ile
	755					760						765	Ala
Thr	Pro	Gly	Pro	Lys	Gly	Asp	Arg	Gly	Gly	Ile	Gly	Glu	Lys
	770					775					780		Gly
Glu	Gly	Thr	Ala	Gly	Asn	Asp	Gly	Ala	Gly	Gly	Leu	Pro	Gly
785				790						795			Pro
Gly	Pro	Pro	Gly	Pro	Ala	Gly	Leu	Leu	Gly	Glu	Lys	Gly	Glu
				805					810				Pro
Pro	Arg	Gly	Leu	Val	Gly	Pro	Pro	Gly	Ser	Arg	Gly	Asn	Pro
			820					825					830
Arg	Gly	Glu	Asn	Gly	Pro	Thr	Gly	Ala	Val	Gly	Phe	Ala	Gly
		835					840					845	Pro
Gly	Ser	Asp	Gly	Gln	Pro	Gly	Val	Lys	Gly	Glu	Pro	Gly	Glu
	850					855					860		Pro
Gln	Lys	Gly	Asp	Ala	Gly	Ser	Pro	Gly	Pro	Gln	Gly	Leu	Ala
865				870						875			Gly
Pro	Gly	Pro	His	Gly	Pro	Asn	Gly	Val	Pro	Gly	Leu	Lys	Gly
				885					890				895
Gly	Thr	Gln	Gly	Pro	Pro	Gly	Ala	Thr	Gly	Phe	Pro	Gly	Ser
			900					905					910
Arg	Val	Gly	Pro	Pro	Gly	Pro	Ala	Gly	Ala	Pro	Gly	Pro	Ala
		915					920					925	Gly
Leu	Gly	Glu	Pro	Gly	Lys	Glu	Gly	Pro	Pro	Gly	Pro	Arg	Gly
	930					935					940		Asp
Gly	Ser	His	Gly	Arg	Val	Gly	Val	Arg	Gly	Pro	Ala	Gly	Pro
945					950					955			Pro
													Gly
													960

Gly Pro Gly Asp Lys Gly Asp Pro Gly Glu Asp Gly Gln Pro Gly Pro  
 965 970 975  
 Asp Gly Pro Pro Gly Pro Ala Gly Thr Thr Gly Gln Arg Gly Ile Val  
 980 985 990  
 Gly Met Pro Gly Gln Arg Gly Glu Arg Gly Met Pro Gly Leu Pro Gly  
 995 1000 1005  
 Pro Ala Gly Thr Pro Gly Lys Val Gly Pro Thr Gly Ala Thr Gly  
 1010 1015 1020  
 Asp Lys Gly Pro Pro Gly Pro Val Gly Pro Pro Gly Ser Asn Gly  
 1025 1030 1035  
 Pro Val Gly Glu Pro Gly Pro Glu Gly Pro Ala Gly Asn Asp Gly  
 1040 1045 1050  
 Thr Pro Gly Arg Asp Gly Ala Val Gly Glu Arg Gly Asp Arg Gly  
 1055 1060 1065  
 Asp Pro Gly Pro Ala Gly Leu Pro Gly Ser Gln Gly Ala Pro Gly  
 1070 1075 1080  
 Thr Pro Gly Pro Val Gly Ala Pro Gly Asp Ala Gly Gln Arg Gly  
 1085 1090 1095  
 Asp Pro Gly Ser Arg Gly Pro Ile Gly His Leu Gly Arg Ala Gly  
 1100 1105 1110  
 Lys Arg Gly Leu Pro Gly Pro Gln Gly Pro Arg Gly Asp Lys Gly  
 1115 1120 1125  
 Asp His Gly Asp Arg Gly Asp Arg Gly Gln Lys Gly His Arg Gly  
 1130 1135 1140  
 Phe Thr Gly Leu Gln Gly Leu Pro Gly Pro Pro Gly Pro Asn Gly  
 1145 1150 1155  
 Glu Gln Gly Ser Ala Gly Ile Pro Gly Pro Phe Gly Pro Arg Gly  
 1160 1165 1170  
 Pro Pro Gly Pro Val Gly Pro Ser Gly Lys Glu Gly Asn Pro Gly  
 1175 1180 1185  
 Pro Leu Gly Pro Leu Gly Pro Pro Gly Val Arg Gly Ser Val Gly  
 1190 1195 1200  
 Glu Ala Gly Pro Glu Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly  
 1205 1210 1215  
 Pro Pro Gly Pro Pro Gly His Leu Thr Ala Ala Leu Gly Asp Ile  
 1220 1225 1230  
 Met Gly His Tyr Asp Glu Ser Met Pro Asp Pro Leu Pro Glu Phe  
 1235 1240 1245  
 Thr Glu Asp Gln Ala Ala Pro Asp Asp Lys Asn Lys Thr Asp Pro  
 1250 1255 1260  
 Gly Val His Ala Thr Leu Lys Ser Leu Ser Ser Gln Ile Glu Thr  
 1265 1270 1275  
 Met Arg Ser Pro Asp Gly Ser Lys Lys His Pro Ala Arg Thr Cys  
 1280 1285 1290  
 Asp Asp Leu Lys Leu Cys His Ser Ala Lys Gln Ser Gly Glu Tyr  
 1295 1300 1305  
 Trp Ile Asp Pro Asn Gln Gly Ser Val Glu Asp Ala Ile Lys Val  
 1310 1315 1320  
 Tyr Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro  
 1325 1330 1335  
 Ser Ser Val Pro Arg Lys Thr Trp Trp Ala Ser Lys Ser Pro Asp  
 1340 1345 1350  
 Asn Lys Pro Val Trp Tyr Gly Leu Asp Met Asn Arg Gly Ser Gln  
 1355 1360 1365  
 Phe Ala Tyr Gly Asp His Gln Ser Pro Asn Thr Ala Ile Thr Gln  
 1370 1375 1380  
 Met Thr Phe Leu Arg Leu Leu Ser Lys Glu Ala Ser Gln Asn Ile  
 1385 1390 1395  
 Thr Tyr Ile Cys Lys Asn Ser Val Gly Tyr Met Asp Asp Gln Ala  
 1400 1405 1410  
 Lys Asn Leu Lys Lys Ala Val Val Leu Lys Gly Ala Asn Asp Leu  
 1415 1420 1425  
 Asp Ile Lys Ala Glu Gly Asn Ile Arg Phe Arg Tyr Ile Val Leu  
 1430 1435 1440  
 Gln Asp Thr Cys Ser Lys Arg Asn Gly Asn Val Gly Lys Thr Val  
 1445 1450 1455  
 Phe Glu Tyr Arg Thr Gln Asn Val Ala Arg Leu Pro Ile Ile Asp  
 1460 1465 1470  
 Leu Ala Pro Val Asp Val Gly Gly Thr Asp Gln Glu Phe Gly Val

1475  
Glu Ile Gly Pro Val Cys Phe Val  
1490

1480  
Phe Val  
1495

1485

<210> 310  
<211> 52  
<212> PRT  
<213> Homo sapiens  
<400> 310

Met Lys Arg Lys Thr Lys Thr Pro Ser Glu Gly Gly Gln Val Leu Ala  
1 5 10 15  
Glu Gln Arg Gly Ser Arg Ser Cys Gln Arg Leu Thr Ala Arg Lys Ala  
20 25 30  
Leu Pro Ile Leu Val Phe Thr Ile Glu Thr Ala Thr Ala Cys Thr Asp  
35 40 45  
His Phe Gly Ser  
50

<210> 311  
<211> 330  
<212> PRT  
<213> Homo sapiens  
<400> 311

Met Ala Glu Glu Asp Leu Ala Pro Gly Lys Ser Ser Val Ala Val Asn  
1 5 10 15  
Asn Cys Ile Arg Gln Leu Ser Tyr Cys Lys Asn Asp Ile Arg Asp Thr  
20 25 30  
Val Gly Ile Trp Gly Glu Gly Lys Asp Met Tyr Leu Ile Leu Glu Asn  
35 40 45  
Asp Met Leu Ser Leu Val Asp Pro Met Asp Arg Ser Val Leu His Ser  
50 55 60  
Gln Pro Ile Val Ser Ile Arg Val Trp Gly Val Gly Arg Asp Asn Gly  
65 70 75 80  
Arg Asp Phe Ala Tyr Val Ala Arg Asp Lys Asp Thr Arg Ile Leu Lys  
85 90 95  
Cys His Val Phe Arg Cys Asp Thr Pro Ala Lys Ala Ile Ala Thr Ser  
100 105 110  
Leu His Glu Ile Cys Ser Lys Ile Met Ala Glu Arg Lys Asn Ala Lys  
115 120 125  
Ala Leu Ala Cys Ser Ser Leu Gln Glu Arg Ala Asn Val Asn Leu Asp  
130 135 140  
Val Pro Leu Gln Val Asp Phe Pro Thr Pro Lys Thr Glu Leu Val Gln  
145 150 155 160  
Lys Phe His Val Gln Tyr Leu Gly Met Leu Pro Val Asp Lys Pro Val  
165 170 175  
Gly Met Asp Ile Leu Asn Ser Ala Ile Glu Asn Leu Met Thr Ser Ser  
180 185 190  
Asn Lys Glu Asp Trp Leu Ser Val Asn Met Asn Val Ala Asp Ala Thr  
195 200 205  
Val Thr Val Ile Ser Glu Lys Asn Glu Glu Glu Val Leu Val Glu Cys  
210 215 220  
Arg Val Arg Phe Leu Ser Phe Met Gly Val Gly Lys Asp Val His Thr  
225 230 235 240  
Phe Ala Phe Ile Met Asp Thr Gly Asn Gln Arg Phe Glu Cys His Val  
245 250 255  
Phe Trp Cys Glu Pro Asn Ala Gly Asn Val Ser Glu Ala Val Gln Ala  
260 265 270  
Ala Cys Met Leu Arg Tyr Gln Lys Cys Leu Val Ala Arg Pro Pro Ser  
275 280 285  
Gln Lys Val Arg Pro Pro Pro Pro Ala Asp Ser Val Thr Arg Arg  
290 295 300  
Val Thr Thr Asn Val Lys Arg Gly Val Leu Ser Leu Ile Asp Thr Leu  
305 310 315 320  
Lys Gln Lys Arg Pro Val Thr Glu Met Pro  
325 330

<210> 312  
<211> 115  
<212> PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 312

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Met Ser Arg His Ser Arg Leu Gln Arg Gln Val Leu Ser Leu Tyr Arg
1      5      10
Asp Leu Leu Arg Ala Gly Arg Gly Lys Pro Gly Ala Glu Ala Arg Val
20      25      30
Arg Ala Glu Phe Arg Gln His Ala Gly Leu Pro Arg Ser Asp Val Leu
35      40      45
Arg Ile Glu Tyr Leu Tyr Arg Arg Gly Arg Arg Gln Leu Gln Leu Leu
50      55      60
Arg Ser Gly His Ala Thr Ala Met Gly Ala Phe Val Arg Pro Arg Ala
65      70      75
Pro Thr Gly Glu Pro Gly Gly Val Gly Cys Gln Pro Asp Asp Gly Asp
85      90      95
Ser Pro Arg Asn Pro His Asp Ser Thr Gly Ala Pro Glu Thr Arg Pro
100     105     110
Asp Gly Arg
115

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&lt;210&gt; 313

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 313

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Met Lys Glu Asp Cys Leu Pro Ser Ser His Val Pro Ile Ser Asp Ser
1      5      10
Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn
20      25      30
Cys Tyr His Glu Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu
35      40      45
Gly Thr Leu Ile Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg
50      55      60
Arg Pro Ile Arg Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu
65      70      75
Pro Ser Thr Ser Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Lys Glu
85      90      95
Pro Ser Pro Gln Asn Gly Asn Ile Thr Ala Gln Gly Pro Ser Ile Gln
100     105     110
Pro Val His Lys Ala Glu Ser Ser Thr Asp Ser Ser Gly Pro Leu Glu
115     120     125
Glu Ala Glu Glu Ala Pro Gln Leu Met Arg Thr Lys Ser Asp Ala Ser
130     135     140
Cys Met Ser Gln Arg Arg Pro Lys Cys Arg Ala Pro Gly Glu Ala Gln
145     150     155
Arg Ile Arg Arg His Arg Phe Ser Ile Asn Gly His Phe Tyr Asn His
165     170     175
Lys Thr Ser Val Phe Thr Pro Ala Tyr Gly Ser Val Thr Asn Val Arg
180     185     190
Val Asn Ser Thr Met Thr Thr Leu Gln Val Leu Thr Leu Leu Leu Asn
195     200     205
Lys Phe Arg Val Glu Asp Gly Pro Ser Glu Phe Ala Leu Tyr Ile Val
210     215     220
His Glu Ser Gly Glu Arg Thr Lys Leu Lys Asp Cys Glu Tyr Pro Leu
225     230     235
Ile Ser Arg Ile Leu His Gly Pro Cys Glu Lys Ile Ala Arg Ile Phe
245     250     255
Leu Met Glu Ala Asp Leu Gly Val Glu Val Pro His Glu Val Ala Gln
260     265     270
Tyr Ile Lys Phe Glu Met Pro Val Leu Asp Ser Phe Val Glu Lys Leu
275     280     285
Lys Glu Glu Glu Glu Arg Glu Ile Ile Lys Leu Thr Met Lys Phe Gln
290     295     300
Ala Leu Arg Leu Thr Met Leu Gln Arg Leu Glu Gln Leu Val Glu Ala
305     310     315
Lys
320

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&lt;210&gt; 314

&lt;211&gt; 490

```

<212>  PRT
<213>  Homo sapiens
<400>  314
Met Trp Pro Gln Asp Pro Ser Arg Lys Glu Val Leu Arg Phe Ala Val
1      5      10      15
Ser Cys Arg Ile Leu Thr Leu Met Leu Gln Ala Leu Phe Asn Ala Ile
20     25     30
Ile Pro Asp His His Ala Glu Ala Phe Ser Pro Pro Arg Leu Ala Pro
35     40     45
Ser Gly Phe Val Asp Gln Leu Val Glu Gly Leu Leu Gly Gly Leu Ser
50     55     60
His Trp Asp Ala Glu His Phe Leu Phe Ile Ala Glu His Gly Tyr Leu
65     70     75
Tyr Glu His Asn Phe Ala Phe Phe Pro Gly Phe Pro Leu Ala Leu Leu
85     90     95
Val Gly Thr Glu Leu Leu Arg Pro Leu Arg Gly Leu Leu Ser Leu Arg
100    105    110
Ser Cys Leu Leu Ile Ser Val Ala Ser Leu Asn Phe Leu Phe Phe Met
115    120    125
Leu Ala Ala Val Ala Leu His Asp Leu Gly Cys Leu Val Leu His Cys
130    135    140
Pro His Gln Ser Phe Tyr Ala Ala Leu Leu Phe Cys Leu Ser Pro Ala
145    150    155
Asn Val Phe Leu Ala Ala Gly Tyr Ser Glu Ala Leu Phe Ala Leu Leu
165    170    175
Thr Phe Ser Ala Met Gly Gln Leu Glu Arg Gly Arg Val Trp Thr Ser
180    185    190
Val Leu Leu Phe Ala Phe Ala Thr Gly Val Arg Ser Asn Gly Leu Val
195    200    205
Ser Val Gly Phe Leu Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser
210    215    220
Leu Thr Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser
225    230    235
Leu Phe Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln
245    250    255
Tyr Tyr Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile
260    265    270
Pro Glu Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala
275    280    285
Glu Gly Asn Glu Pro Pro Trp Cys Phe Trp Asp Val Pro Leu Ile Tyr
290    295    300
Ser Tyr Ile Gln Asp Val Tyr Trp Asn Val Gly Phe Leu Lys Tyr Tyr
305    310    315
Glu Leu Lys Gln Val Pro Asn Phe Leu Leu Ala Ala Pro Val Ala Ile
325    330    335
Leu Val Ala Trp Ala Thr Trp Thr Tyr Val Thr Thr His Pro Trp Leu
340    345    350
Cys Leu Thr Leu Gly Leu Gln Arg Ser Lys Asn Asn Lys Thr Leu Glu
355    360    365
Lys Pro Asp Leu Gly Phe Leu Ser Pro Gln Val Phe Val Tyr Val Val
370    375    380
His Ala Ala Val Leu Leu Leu Phe Gly Gly Leu Cys Met His Val Gln
385    390    395
Val Leu Thr Arg Phe Leu Gly Ser Ser Thr Pro Ile Met Tyr Trp Phe
405    410    415
Pro Ala His Leu Leu Gln Asp Gln Glu Pro Leu Leu Arg Ser Leu Lys
420    425    430
Thr Val Pro Trp Lys Pro Leu Ala Glu Asp Ser Pro Pro Gly Gln Lys
435    440    445
Val Pro Arg Asn Pro Ile Met Gly Leu Leu Tyr His Trp Lys Thr Cys
450    455    460
Ser Pro Val Thr Arg Tyr Ile Leu Gly Tyr Phe Leu Thr Tyr Trp Leu
465    470    475
Leu Gly Leu Leu Leu His Cys Asn Phe Leu
485    490

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<210> 315  
 <211> 688  
 <212> PRT

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<213> Homo sapiens
<400> 315
Met Ser Ser Arg Thr Val Leu Ala Pro Gly Asn Asp Arg Asn Ser Asp
1      5      10      15
Thr His Gly Thr Leu Gly Ser Gly Arg Ser Ser Asp Lys Gly Pro Ser
20     25     30
Trp Ser Ser Arg Ser Leu Gly Ala Arg Cys Arg Asn Ser Ile Ala Ser
35     40     45
Cys Pro Glu Glu Gln Pro His Val Gly Asn Tyr Arg Leu Leu Arg Thr
50     55     60
Ile Gly Lys Gly Asn Phe Ala Lys Val Lys Leu Ala Arg His Ile Leu
65     70     75     80
Thr Gly Arg Glu Val Ala Ile Lys Ile Ile Asp Lys Thr Gln Leu Asn
85     90     95
Pro Ser Ser Leu Gln Lys Leu Phe Arg Glu Val Arg Ile Met Lys Gly
100    105    110
Leu Asn His Pro Asn Ile Val Lys Leu Phe Glu Val Ile Glu Thr Glu
115    120    125
Lys Thr Leu Tyr Leu Val Met Glu Tyr Ala Ser Ala Gly Glu Val Phe
130    135    140
Asp Tyr Leu Val Ser His Gly Arg Met Lys Glu Lys Glu Ala Arg Ala
145    150    155    160
Lys Phe Arg Gln Ile Val Ser Ala Val His Tyr Cys His Gln Lys Asn
165    170    175
Ile Val His Arg Asp Leu Lys Ala Glu Asn Leu Leu Leu Asp Ala Glu
180    185    190
Ala Asn Ile Lys Ile Ala Asp Phe Gly Phe Ser Asn Glu Phe Thr Leu
195    200    205
Gly Ser Lys Leu Asp Thr Phe Cys Gly Ser Pro Pro Tyr Ala Ala Pro
210    215    220
Glu Leu Phe Gln Gly Lys Lys Tyr Asp Gly Pro Glu Val Asp Ile Trp
225    230    235    240
Ser Leu Gly Val Ile Leu Tyr Thr Leu Val Ser Gly Ser Leu Pro Phe
245    250    255
Asp Gly His Asn Leu Lys Glu Leu Arg Glu Arg Val Leu Arg Gly Lys
260    265    270
Tyr Arg Val Pro Phe Tyr Met Ser Thr Asp Cys Glu Ser Ile Leu Arg
275    280    285
Arg Phe Leu Val Leu Asn Pro Ala Lys Arg Cys Thr Leu Glu Gln Ile
290    295    300
Met Lys Asp Lys Trp Ile Asn Ile Gly Tyr Glu Gly Glu Glu Leu Lys
305    310    315    320
Pro Tyr Thr Glu Pro Glu Glu Asp Phe Gly Asp Thr Lys Arg Ile Glu
325    330    335
Val Met Val Gly Met Gly Tyr Thr Arg Glu Glu Ile Lys Glu Ser Leu
340    345    350
Thr Ser Gln Lys Tyr Asn Glu Val Thr Ala Thr Tyr Leu Leu Gly
355    360    365
Arg Lys Thr Glu Glu Gly Gly Asp Arg Gly Ala Pro Gly Leu Ala Leu
370    375    380
Ala Arg Val Arg Ala Pro Ser Asp Thr Thr Asn Gly Thr Ser Ser Ser
385    390    395    400
Lys Gly Thr Ser His Ser Lys Gly Gln Arg Ser Ser Ser Ser Thr Tyr
405    410    415
His Arg Gln Arg Arg His Ser Asp Phe Cys Gly Pro Ser Pro Ala Pro
420    425    430
Leu His Pro Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys
435    440    445
Glu Glu Arg Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser
450    455    460
Gly Ser Arg Gly Leu Pro Pro Ser Ser Pro Met Val Ser Ser Ala His
465    470    475    480
Asn Pro Asn Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser
485    490    495
Thr Pro Asn Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr
500    505    510
Val Cys Thr Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn
515    520    525
Gly Lys Glu Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro

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530  
 Ser Ser His Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala  
 545 550 555 560  
 Arg Gly Ser Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp  
 565 570 575  
 Arg Arg Ala Gly Gly Gly Gly Gly Gly Val Gln Asn Gly Pro Pro  
 580 585 590  
 Ala Ser Pro Thr Leu Ala His Glu Ala Ala Pro Leu Pro Ala Gly Arg  
 595 600 605  
 Pro Arg Pro Thr Thr Asn Leu Phe Thr Lys Leu Thr Ser Lys Leu Thr  
 610 615 620  
 Arg Arg Val Thr Leu Asp Pro Ser Lys Arg Gln Asn Ser Asn Arg Cys  
 625 630 635 640  
 Val Ser Gly Ala Ser Leu Pro Gln Gly Ser Lys Ile Arg Ser Gln Thr  
 645 650 655  
 Asn Leu Arg Glu Ser Gly Asp Leu Arg Ser Gln Val Ala Ile Tyr Leu  
 660 665 670  
 Gly Ile Lys Arg Lys Pro Pro Pro Gly Cys Ser Asp Ser Pro Gly Val  
 675 680 685

<210> 316  
 <211> 338  
 <212> PRT  
 <213> Homo sapiens  
 <400> 316

Met Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr  
 1 5 10 15  
 Ser Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln  
 20 25 30  
 Ser Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro  
 35 40 45  
 Ser Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val  
 50 55 60  
 Pro Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His  
 65 70 75 80  
 Ile Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile  
 85 90 95  
 Leu Asp His Asn Leu Leu Glu Asn Ser Lys Ile Lys Gly Arg Val Phe  
 100 105 110  
 Ser Lys Leu Lys Gln Leu Lys Lys Leu His Ile Asn His Asn Asn Leu  
 115 120 125  
 Thr Glu Ser Val Gly Pro Leu Pro Lys Ser Leu Glu Asp Leu Gln Leu  
 130 135 140  
 Thr His Asn Lys Ile Thr Lys Leu Gly Ser Phe Glu Gly Leu Val Asn  
 145 150 155 160  
 Leu Thr Phe Ile His Leu Gln His Asn Arg Leu Lys Glu Asp Ala Val  
 165 170 175  
 Ser Ala Ala Phe Lys Gly Leu Lys Ser Leu Glu Tyr Leu Asp Leu Ser  
 180 185 190  
 Phe Asn Gln Ile Ala Arg Leu Pro Ser Gly Leu Pro Val Ser Leu Leu  
 195 200 205  
 Thr Leu Tyr Leu Asp Asn Asn Lys Ile Ser Asn Ile Pro Asp Glu Tyr  
 210 215 220  
 Phe Lys Arg Phe Asn Ala Leu Gln Tyr Leu Arg Leu Ser His Asn Glu  
 225 230 235 240  
 Leu Ala Asp Ser Gly Ile Pro Gly Asn Ser Phe Asn Val Ser Ser Leu  
 245 250 255  
 Val Glu Leu Asp Leu Ser Tyr Asn Lys Leu Lys Asn Ile Pro Thr Val  
 260 265 270  
 Asn Glu Asn Leu Glu Asn Tyr Tyr Leu Glu Val Asn Gln Leu Glu Lys  
 275 280 285  
 Phe Asp Ile Lys Ser Phe Cys Lys Ile Leu Gly Pro Leu Ser Tyr Ser  
 290 295 300  
 Lys Ile Lys His Leu Arg Leu Asp Gly Asn Arg Ile Ser Glu Thr Ser  
 305 310 315 320  
 Leu Pro Pro Asp Met Tyr Glu Cys Leu Arg Val Ala Asn Glu Val Thr  
 325 330 335  
 Leu Asn

<210> 317  
 <211> 1466  
 <212> PRT  
 <213> Homo sapiens  
 <400> 317

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Met Met Ser Phe Val Gln Lys Gly Ser Trp Leu Leu Leu Ala Leu Leu
1      5      10      15
His Pro Thr Ile Leu Ala Gln Gln Glu Ala Val Glu Gly Gly Cys
20      25      30
Ser His Leu Gly Gln Ser Tyr Ala Asp Arg Asp Val Trp Lys Pro Glu
35      40      45
Pro Cys Gln Ile Cys Val Cys Asp Ser Gly Ser Val Leu Cys Asp Asp
50      55      60
Ile Ile Cys Asp Asp Gln Glu Leu Asp Cys Pro Asn Pro Glu Ile Pro
65      70      75      80
Phe Gly Glu Cys Cys Ala Val Cys Pro Gln Pro Pro Thr Ala Pro Thr
85      90      95
Arg Pro Pro Asn Gly Gln Gly Pro Gln Gly Pro Lys Gly Asp Pro Gly
100     105     110
Pro Pro Gly Ile Pro Gly Arg Asn Gly Asp Pro Gly Ile Pro Gly Gln
115     120     125
Pro Gly Ser Pro Gly Ser Pro Gly Pro Pro Gly Ile Cys Glu Ser Cys
130     135     140
Pro Thr Gly Pro Gln Asn Tyr Ser Pro Gln Tyr Asp Ser Tyr Asp Val
145     150     155     160
Lys Ser Gly Val Ala Val Gly Gly Leu Ala Gly Tyr Pro Gly Pro Ala
165     170     175
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Thr Ser Gly His Pro Gly
180     185     190
Ser Pro Gly Ser Pro Gly Tyr Gln Gly Pro Pro Gly Glu Pro Gly Gln
195     200     205
Ala Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly Ala Ile Gly Pro Ser
210     215     220
Gly Pro Ala Gly Lys Asp Gly Glu Ser Gly Arg Pro Gly Arg Pro Gly
225     230     235     240
Glu Arg Gly Leu Pro Gly Pro Pro Gly Ile Lys Gly Pro Ala Gly Ile
245     250     255
Pro Gly Phe Pro Gly Met Lys Gly His Arg Gly Phe Asp Gly Arg Asn
260     265     270
Gly Glu Lys Gly Glu Thr Gly Ala Pro Gly Leu Lys Gly Glu Asn Gly
275     280     285
Leu Pro Gly Glu Asn Gly Ala Pro Gly Pro Met Gly Pro Arg Gly Ala
290     295     300
Pro Gly Glu Arg Gly Arg Pro Gly Leu Pro Gly Ala Ala Gly Ala Arg
305     310     315     320
Gly Asn Asp Gly Ala Arg Gly Ser Asp Gly Gln Pro Gly Pro Pro Gly
325     330     335
Pro Pro Gly Thr Ala Gly Phe Pro Gly Ser Pro Gly Ala Lys Gly Glu
340     345     350
Val Gly Pro Ala Gly Ser Pro Gly Ser Asn Gly Ala Pro Gly Gln Arg
355     360     365
Gly Glu Pro Gly Pro Gln Gly His Ala Gly Ala Gln Gly Pro Pro Gly
370     375     380
Pro Pro Gly Ile Asn Gly Ser Pro Gly Gly Lys Gly Glu Met Gly Pro
385     390     395     400
Ala Gly Ile Pro Gly Ala Pro Gly Leu Met Gly Ala Arg Gly Pro Pro
405     410     415
Gly Pro Ala Gly Ala Asn Gly Ala Pro Gly Leu Arg Gly Gly Ala Gly
420     425     430
Glu Pro Gly Lys Asn Gly Ala Lys Gly Glu Pro Gly Pro Arg Gly Glu
435     440     445
Arg Gly Glu Ala Gly Ile Pro Gly Val Pro Gly Ala Lys Gly Glu Asp
450     455     460
Gly Lys Asp Gly Ser Pro Gly Glu Pro Gly Ala Asn Gly Leu Pro Gly
465     470     475     480
Ala Ala Gly Glu Arg Gly Ala Pro Gly Phe Arg Gly Pro Ala Gly Pro
485     490     495
Asn Gly Ile Pro Gly Glu Lys Gly Pro Ala Gly Glu Arg Gly Ala Pro

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500					505					510				
Gly	Pro	Ala	Gly	Pro	Arg	Gly	Ala	Gly	Glu	Pro	Gly	Arg	Asp	Gly
Val	Pro	Gly	Gly	Pro	Gly	Met	Arg	Gly	Met	Pro	Gly	Ser	Pro	Gly
Pro	Gly	Ser	Asp	Gly	Lys	Pro	Gly	Pro	Pro	Gly	Ser	Gln	Gly	Glu
545	Gly	Arg	Pro	Gly	Pro	Pro	Gly	Pro	Ser	Gly	Pro	Arg	Gly	Gln
Val	Met	Gly	Phe	Pro	Gly	Pro	Lys	Gly	Asn	Asp	Gly	Ala	Pro	Gly
Asn	Gly	Glu	Arg	Gly	Gly	Pro	Gly	Gly	Pro	Gly	Pro	Gln	Gly	Pro
Gly	Lys	Asn	Gly	Glu	Thr	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Pro	Thr
Pro	Gly	Gly	Asp	Lys	Gly	Asp	Thr	Gly	Pro	Pro	Gly	Pro	Gln	Gly
625	Gln	Gly	Leu	Pro	Gly	Thr	Gly	Gly	Pro	Pro	Gly	Glu	Asn	Gly
Gly	Glu	Pro	Gly	Pro	Lys	Gly	Asp	Ala	Gly	Ala	Pro	Gly	Ala	Pro
Gly	Lys	Gly	Asp	Ala	Gly	Ala	Pro	Gly	Glu	Arg	Gly	Pro	Pro	Gly
Ala	Gly	Ala	Pro	Gly	Leu	Arg	Gly	Gly	Ala	Gly	Pro	Pro	Gly	Pro
Gly	Gly	Lys	Gly	Ala	Ala	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ala	Ala
705	Thr	Pro	Gly	Leu	Gln	Gly	Met	Pro	Gly	Glu	Arg	Gly	Gly	Leu
Pro	Gly	Pro	Lys	Gly	Asp	Lys	Gly	Glu	Pro	Gly	Gly	Pro	Gly	Ala
Gly	Val	Pro	Gly	Lys	Asp	Gly	Pro	Arg	Gly	Pro	Thr	Gly	Pro	Ile
Pro	Pro	Gly	Pro	Ala	Gly	Gln	Pro	Gly	Asp	Lys	Gly	Glu	Gly	Gly
Pro	Gly	Leu	Pro	Gly	Ile	Ala	Gly	Pro	Arg	Gly	Ser	Pro	Gly	Glu
785	Gly	Glu	Thr	Gly	Pro	Pro	Gly	Pro	Ala	Gly	Phe	Pro	Gly	Ala
Gln	Asn	Gly	Glu	Pro	Gly	Gly	Lys	Gly	Glu	Arg	Gly	Ala	Pro	Gly
Lys	Gly	Glu	Gly	Gly	Pro	Pro	Gly	Val	Ala	Gly	Pro	Pro	Gly	Gly
Gly	Pro	Ala	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Val	Lys	Gly	Glu	Arg
Ser	Pro	Gly	Gly	Pro	Gly	Ala	Ala	Gly	Phe	Pro	Gly	Ala	Arg	Gly
Pro	Gly	Pro	Pro	Gly	Ser	Asn	Gly	Asn	Pro	Gly	Pro	Pro	Gly	Pro
Gly	Ser	Pro	Gly	Lys	Asp	Gly	Pro	Pro	Gly	Pro	Ala	Gly	Asn	Thr
Ala	Pro	Gly	Ser	Pro	Gly	Val	Ser	Gly	Pro	Lys	Gly	Asp	Ala	Gly
Pro	Gly	Glu	Lys	Gly	Ser	Pro	Gly	Ala	Gln	Gly	Pro	Pro	Gly	Ala
Gly	Pro	Leu	Gly	Ile	Ala	Gly	Ile	Thr	Gly	Ala	Arg	Gly	Leu	Ala
945	Pro	Pro	Gly	Met	Pro	Gly	Pro	Arg	Gly	Ser	Pro	Gly	Pro	Gln
Lys	Gly	Glu	Ser	Gly	Lys	Pro	Gly	Ala	Asn	Gly	Leu	Ser	Gly	Glu
Gly	Pro	Pro	Gly	Pro	Gln	Gly	Leu	Pro	Gly	Leu	Ala	Gly	Thr	Ala
Glu	Pro	Gly	Arg	Asp	Gly	Asn	Pro	Gly	Ser	Asp	Gly	Leu	Pro	Gly
Arg	Asp	Gly	Ser	Pro	Gly	Lys	Gly	Asp	Arg	Gly	Glu	Asn	Gly	
Ser	Pro	Gly	Ala	Pro	Gly	Ala	Pro	Gly	His	Pro	Gly	Pro	Pro	Gly

Pro Val	Gly	Pro	Ala	Gly	Lys	Ser	Gly	Asp	Arg	Gly	Glu	Ser	Gly
1055					1060					1065			
Pro Ala	Gly	Pro	Ala	Gly	Ala	Pro	Gly	Pro	Ala	Gly	Ser	Arg	Gly
1070					1075					1080			
Ala Pro	Gly	Pro	Gln	Gly	Pro	Arg	Gly	Asp	Lys	Gly	Glu	Thr	Gly
1085					1090					1095			
Glu Arg	Gly	Ala	Ala	Gly	Ile	Lys	Gly	His	Arg	Gly	Phe	Pro	Gly
1100					1105					1110			
Asn Pro	Gly	Ala	Pro	Gly	Ser	Pro	Gly	Pro	Ala	Gly	Gln	Gln	Gly
1115					1120					1125			
Ala Ile	Gly	Ser	Pro	Gly	Pro	Ala	Gly	Pro	Arg	Gly	Pro	Val	Gly
1130					1135					1140			
Pro Ser	Gly	Pro	Pro	Gly	Lys	Asp	Gly	Thr	Ser	Gly	His	Pro	Gly
1145					1150					1155			
Pro Ile	Gly	Pro	Pro	Gly	Pro	Arg	Gly	Asn	Arg	Gly	Glu	Arg	Gly
1160					1165					1170			
Ser Glu	Gly	Ser	Pro	Gly	His	Pro	Gly	Gln	Pro	Gly	Pro	Pro	Gly
1175					1180					1185			
Pro Pro	Gly	Ala	Pro	Gly	Pro	Cys	Cys	Gly	Gly	Val	Gly	Ala	Ala
1190					1195					1200			
Ala Ile	Ala	Gly	Ile	Gly	Gly	Glu	Lys	Ala	Gly	Gly	Phe	Ala	Pro
1205					1210					1215			
Tyr Tyr	Gly	Asp	Glu	Pro	Met	Asp	Phe	Lys	Ile	Asn	Thr	Asp	Glu
1220					1225					1230			
Ile Met	Thr	Ser	Leu	Lys	Ser	Val	Asn	Gly	Gln	Ile	Glu	Ser	Leu
1235					1240					1245			
Ile Ser	Pro	Asp	Gly	Ser	Arg	Lys	Asn	Pro	Ala	Arg	Asn	Cys	Arg
1250					1255					1260			
Asp Leu	Lys	Phe	Cys	His	Pro	Glu	Leu	Lys	Ser	Gly	Glu	Tyr	Trp
1265					1270					1275			
Val Asp	Pro	Asn	Gln	Gly	Cys	Lys	Leu	Asp	Ala	Ile	Lys	Val	Phe
1280					1285					1290			
Cys Asn	Met	Glu	Thr	Gly	Glu	Thr	Cys	Ile	Ser	Ala	Asn	Pro	Leu
1295					1300					1305			
Asn Val	Pro	Arg	Lys	His	Trp	Trp	Thr	Asp	Ser	Ser	Ala	Glu	Lys
1310					1315					1320			
Lys His	Val	Trp	Phe	Gly	Glu	Ser	Met	Asp	Gly	Gly	Phe	Gln	Phe
1325					1330					1335			
Ser Tyr	Gly	Asn	Pro	Glu	Leu	Pro	Glu	Asp	Val	Leu	Asp	Val	Gln
1340					1345					1350			
Leu Ala	Phe	Leu	Arg	Leu	Leu	Ser	Ser	Arg	Ala	Ser	Gln	Asn	Ile
1355					1360					1365			
Thr Tyr	His	Cys	Lys	Asn	Ser	Ile	Ala	Tyr	Met	Asp	Gln	Ala	Ser
1370					1375					1380			
Gly Asn	Val	Lys	Lys	Ala	Leu	Lys	Leu	Met	Gly	Ser	Asn	Glu	Gly
1385					1390					1395			
Glu Phe	Lys	Ala	Glu	Gly	Asn	Ser	Lys	Phe	Thr	Tyr	Thr	Val	Leu
1400					1405					1410			
Glu Asp	Gly	Cys	Thr	Lys	His	Thr	Gly	Glu	Trp	Ser	Lys	Thr	Val
1415					1420					1425			
Phe Glu	Tyr	Arg	Thr	Arg	Lys	Ala	Val	Arg	Leu	Pro	Ile	Val	Asp
1430					1435					1440			
Ile Ala	Pro	Tyr	Asp	Ile	Gly	Gly	Pro	Asp	Gln	Glu	Phe	Gly	Val
1445					1450					1455			
Asp Val	Gly	Pro	Val	Cys	Phe	Leu							
1460					1465								

<210> 318  
 <211> 1464  
 <212> PRT  
 <213> Homo sapiens  
 <400> 318

Met	Phe	Ser	Phe	Val	Asp	Leu	Arg	Leu	Leu	Leu	Leu	Leu	Ala	Ala	Thr
1				5					10					15	
Ala	Leu	Leu	Thr	His	Gly	Gln	Glu	Glu	Gly	Gln	Val	Glu	Gly	Gln	Asp
			20					25					30		
Glu	Asp	Ile	Pro	Pro	Ile	Thr	Cys	Val	Gln	Asn	Gly	Leu	Arg	Tyr	His
		35				40					45				
Asp	Arg	Asp	Val	Trp	Lys	Pro	Glu	Pro	Cys	Arg	Ile	Cys	Val	Cys	Asp

50	Asn	Gly	Lys	Val	Leu	Cys	Asp	Asp	Val	Ile	Cys	Asp	Glu	Thr	Lys	Asn
65	Cys	Pro	Gly	Ala	Glu	Val	Pro	Glu	Gly	Glu	Cys	Cys	Pro	Val	Cys	Pro
				85						90					95	
	Asp	Gly	Ser	Glu	Ser	Pro	Thr	Asp	Gln	Glu	Thr	Thr	Gly	Val	Glu	Gly
				100					105					110		
	Pro	Lys	Gly	Asp	Thr	Gly	Pro	Arg	Gly	Pro	Arg	Gly	Pro	Ala	Gly	Pro
				115				120					125			
	Pro	Gly	Arg	Asp	Gly	Ile	Pro	Gly	Gln	Pro	Gly	Leu	Pro	Gly	Pro	Pro
				130			135					140				
	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Gly	Gly	Asn	Phe	Ala
145					150					155						160
	Pro	Gln	Leu	Ser	Tyr	Gly	Tyr	Asp	Glu	Lys	Ser	Thr	Gly	Gly	Ile	Ser
				165					170						175	
	Val	Pro	Gly	Pro	Met	Gly	Pro	Ser	Gly	Pro	Arg	Gly	Leu	Pro	Gly	Pro
				180					185					190		
	Pro	Gly	Ala	Pro	Gly	Pro	Gln	Gly	Phe	Gln	Gly	Pro	Pro	Gly	Glu	Pro
				195				200				205				
	Gly	Glu	Pro	Gly	Ala	Ser	Gly	Pro	Met	Gly	Pro	Arg	Gly	Pro	Pro	Gly
210							215					220				
	Pro	Pro	Gly	Lys	Asn	Gly	Asp	Asp	Gly	Glu	Ala	Gly	Lys	Pro	Gly	Arg
225					230					235						240
	Pro	Gly	Glu	Arg	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Ala	Arg	Gly	Leu	Pro
				245						250					255	
	Gly	Thr	Ala	Gly	Leu	Pro	Gly	Met	Lys	Gly	His	Arg	Gly	Phe	Ser	Gly
				260				265						270		
	Leu	Asp	Gly	Ala	Lys	Gly	Asp	Ala	Gly	Pro	Ala	Gly	Pro	Lys	Gly	Glu
				275				280				285				
	Pro	Gly	Ser	Pro	Gly	Glu	Asn	Gly	Ala	Pro	Gly	Gln	Met	Gly	Pro	Arg
				290			295					300				
	Gly	Leu	Pro	Gly	Glu	Arg	Gly	Arg	Pro	Gly	Ala	Pro	Gly	Pro	Ala	Gly
305					310					315						320
	Ala	Arg	Gly	Asn	Asp	Gly	Ala	Thr	Gly	Ala	Ala	Gly	Pro	Pro	Gly	Pro
				325						330					335	
	Thr	Gly	Pro	Ala	Gly	Pro	Pro	Gly	Phe	Pro	Gly	Ala	Val	Gly	Ala	Lys
				340					345				350			
	Gly	Glu	Ala	Gly	Pro	Gln	Gly	Pro	Arg	Gly	Ser	Glu	Gly	Pro	Gln	Gly
				355				360				365				
	Val	Arg	Gly	Glu	Pro	Gly	Pro	Gly	Pro	Ala	Gly	Ala	Ala	Gly	Pro	
				370			375					380				
	Ala	Gly	Asn	Pro	Gly	Ala	Asp	Gly	Gln	Pro	Gly	Ala	Lys	Gly	Ala	Asn
385					390					395						400
	Gly	Ala	Pro	Gly	Ile	Ala	Gly	Ala	Pro	Gly	Phe	Pro	Gly	Ala	Arg	Gly
				405						410					415	
	Pro	Ser	Gly	Pro	Gln	Gly	Pro	Gly	Gly	Pro	Pro	Gly	Pro	Lys	Gly	Asn
				420					425					430		
	Ser	Gly	Glu	Pro	Gly	Ala	Pro	Gly	Ser	Lys	Gly	Asp	Thr	Gly	Ala	Lys
				435				440				445				
	Gly	Glu	Pro	Gly	Pro	Val	Gly	Val	Gln	Gly	Pro	Pro	Gly	Pro	Ala	Gly
				450			455					460				
	Glu	Glu	Gly	Lys	Arg	Gly	Ala	Arg	Gly	Glu	Pro	Gly	Pro	Thr	Gly	Leu
465					470					475						480
	Pro	Gly	Pro	Pro	Gly	Glu	Arg	Gly	Gly	Pro	Gly	Ser	Arg	Gly	Phe	Pro
				485						490					495	
	Gly	Ala	Asp	Gly	Val	Ala	Gly	Pro	Lys	Gly	Pro	Ala	Gly	Glu	Arg	Gly
				500					505					510		
	Ser	Pro	Gly	Pro	Ala	Gly	Pro	Lys	Gly	Ser	Pro	Gly	Glu	Ala	Gly	Arg
				515				520					525			
	Pro	Gly	Glu	Ala	Gly	Leu	Pro	Gly	Ala	Lys	Gly	Leu	Thr	Gly	Ser	Pro
				530			535					540				
	Gly	Ser	Pro	Gly	Pro	Asp	Gly	Lys	Thr	Gly	Pro	Pro	Gly	Pro	Ala	Gly
545					550					555						560
	Gln	Asp	Gly	Arg	Pro	Gly	Pro	Pro	Gly	Pro	Gly	Ala	Arg	Gly	Gln	
				565						570					575	
	Ala	Gly	Val	Met	Gly	Phe	Pro	Gly	Pro	Lys	Gly	Ala	Ala	Gly	Glu	Pro
				580					585					590		
	Gly	Lys	Ala	Gly	Glu	Arg	Gly	Val	Pro	Gly	Pro	Pro	Gly	Ala	Val	Gly
				595				600						605		



Pro Ala Gly Lys Asp Gly Glu Ala Gly Ala Gln Gly Pro Pro Gly Pro  
 610 615 620  
 Ala Gly Pro Ala Gly Glu Arg Gly Glu Gln Gly Pro Ala Gly Ser Pro  
 625 630 635 640  
 Gly Phe Gln Gly Leu Pro Gly Pro Ala Gly Pro Pro Gly Glu Ala Gly  
 645 650 655  
 Lys Pro Gly Glu Gln Gly Val Pro Gly Asp Leu Gly Ala Pro Gly Pro  
 660 665 670  
 Ser Gly Ala Arg Gly Glu Arg Gly Phe Pro Gly Glu Arg Gly Val Gln  
 675 680 685  
 Gly Pro Pro Gly Pro Ala Gly Pro Arg Gly Ala Asn Gly Ala Pro Gly  
 690 695 700  
 Asn Asp Gly Ala Lys Gly Asp Ala Gly Ala Pro Gly Ala Pro Gly Ser  
 705 710 715 720  
 Gln Gly Ala Pro Gly Leu Gln Gly Met Pro Gly Glu Arg Gly Ala Ala  
 725 730 735  
 Gly Leu Pro Gly Pro Lys Gly Asp Arg Gly Asp Ala Gly Pro Lys Gly  
 740 745 750  
 Ala Asp Gly Ser Pro Gly Lys Asp Gly Val Arg Gly Leu Thr Gly Pro  
 755 760 765  
 Ile Gly Pro Pro Gly Pro Ala Gly Ala Pro Gly Asp Lys Gly Glu Ser  
 770 775 780  
 Gly Pro Ser Gly Pro Ala Gly Pro Thr Gly Ala Arg Gly Ala Pro Gly  
 785 790 795 800  
 Asp Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Phe Ala Gly Pro  
 805 810 815  
 Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Glu Pro Gly Asp Ala  
 820 825 830  
 Gly Ala Lys Gly Asp Ala Gly Pro Pro Gly Pro Ala Gly Pro Ala Gly  
 835 840 845  
 Pro Pro Gly Pro Ile Gly Asn Val Gly Ala Pro Gly Ala Lys Gly Ala  
 850 855 860  
 Arg Gly Ser Ala Gly Pro Pro Gly Ala Thr Gly Phe Pro Gly Ala Ala  
 865 870 875 880  
 Gly Arg Val Gly Pro Pro Gly Pro Ser Gly Asn Ala Gly Pro Pro Gly  
 885 890 895  
 Pro Pro Gly Pro Ala Gly Lys Glu Gly Gly Lys Gly Pro Arg Gly Glu  
 900 905 910  
 Thr Gly Pro Ala Gly Arg Pro Gly Glu Val Gly Pro Pro Gly Pro Pro  
 915 920 925  
 Gly Pro Ala Gly Glu Lys Gly Ser Pro Gly Ala Asp Gly Pro Ala Gly  
 930 935 940  
 Ala Pro Gly Thr Pro Gly Pro Gln Gly Ile Ala Gly Gln Arg Gly Val  
 945 950 955 960  
 Val Gly Leu Pro Gly Gln Arg Gly Glu Arg Gly Phe Pro Gly Leu Pro  
 965 970 975  
 Gly Pro Ser Gly Glu Pro Gly Lys Gln Gly Pro Ser Gly Ala Ser Gly  
 980 985 990  
 Glu Arg Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Leu Ala Gly Pro  
 995 1000 1005  
 Pro Gly Glu Ser Gly Arg Glu Gly Ala Pro Ala Ala Glu Gly Ser  
 1010 1015 1020  
 Pro Gly Arg Asp Gly Ser Pro Gly Ala Lys Gly Asp Arg Gly Glu  
 1025 1030 1035  
 Thr Gly Pro Ala Gly Pro Pro Gly Ala Pro Gly Ala Pro Gly Ala  
 1040 1045 1050  
 Pro Gly Pro Val Gly Pro Ala Gly Lys Ser Gly Asp Arg Gly Glu  
 1055 1060 1065  
 Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly Pro Val Gly Ala  
 1070 1075 1080  
 Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp Lys Gly Glu  
 1085 1090 1095  
 Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg Gly Phe  
 1100 1105 1110  
 Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Glu  
 1115 1120 1125  
 Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro  
 1130 1135 1140  
 Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu

1145	Pro Gly	Pro Ile Gly	Pro Pro	1150	Gly Pro Arg Gly	1155	Arg Thr Gly Asp
1160	Ala Gly	Pro Val Gly	Pro Pro	1165	Gly Pro Pro Gly	1170	Pro Pro Gly Pro
1175	Pro Gly	Pro Pro Ser	Ala Ala	1180	Phe Asp Phe Ser	1185	Phe Leu Pro Gln
1190	Pro Pro	Gln Glu Lys	Ala His	1195	Asp Gly Gly Arg	1200	Tyr Tyr Arg Ala
1205	Asp Asp	Ala Asn Val	Val Arg	1210	Asp Arg Asp Leu	1215	Glu Val Asp Thr
1220	Thr Leu	Lys Ser Leu	Ser Gln	1225	Gln Ile Glu Asn	1230	Ile Arg Ser Pro
1235	Glu Gly	Ser Arg Lys	Asn Pro	1240	Ala Arg Thr Cys	1245	Arg Asp Leu Lys
1250	Met Cys	His Ser Asp	Trp Lys	1255	Ser Gly Glu Tyr	1260	Trp Ile Asp Pro
1265	Asn Gln	Gly Cys Asn	Leu Asp	1270	Ala Ile Lys Val	1275	Phe Cys Asn Met
1280	Glu Thr	Gly Glu Thr	Cys Val	1285	Tyr Pro Thr Gln	1290	Pro Ser Val Ala
1295	Gln Lys	Asn Trp Tyr	Ile Ser	1300	Lys Asn Pro Lys	1305	Asp Lys Arg His
1310	Val Trp	Phe Gly Glu	Ser Met	1315	Thr Asp Gly Phe	1320	Gln Phe Glu Tyr
1325	Gly Gly	Gln Gly Ser	Asp Pro	1330	Ala Asp Val Ala	1335	Ile Gln Leu Thr
1340	Phe Leu	Arg Leu Met	Ser Thr	1345	Glu Ala Ser Gln	1350	Asn Ile Thr Tyr
1355	His Cys	Lys Asn Ser	Val Ala	1360	Tyr Met Asp Gln	1365	Gln Thr Gly Asn
1370	Leu Lys	Lys Ala Leu	Leu Leu	1375	Lys Gly Ser Asn	1380	Glu Ile Glu Ile
1385	Arg Ala	Glu Gly Asn	Ser Arg	1390	Phe Thr Tyr Ser	1395	Val Thr Val Asp
1400	Gly Cys	Thr Ser His	Thr Gly	1405	Ala Trp Gly Lys	1410	Thr Val Ile Glu
1415	Tyr Lys	Thr Thr Lys	Ser Ser	1420	Arg Leu Pro Ile	1425	Ile Asp Val Ala
1430	Pro Leu	Asp Val Gly	Ala Pro	1435	Asp Gln Glu Phe	1440	Gly Phe Asp Val
1445	Gly Pro	Val Cys Phe	Leu	1450		1455	
1460							

&lt;210&gt; 319

&lt;211&gt; 764

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

Met Gly	Ser Asn	Leu Ser	Pro Gln	Leu Cys	Leu Met	Pro Phe	Ile Leu
1	5	10	15	20	25	30	35
Gly Leu	Leu Ser	Gly Gly	Val Thr	Thr Thr	Pro Trp	Ser Leu	Ala Gln
Pro Gln	Gly Ser	Cys Ser	Leu Glu	Gly Val	Glu Ile	Lys Gly	Gly Ser
35	40	45	50	55	60	65	70
Phe Arg	Leu Leu	Gln Glu	Gly Gln	Ala Leu	Glu Tyr	Val Cys	Pro Ser
50	55	60	65	70	75	80	85
Gly Phe	Tyr Pro	Tyr Pro	Val Gln	Thr Arg	Thr Cys	Arg Ser	Thr Gly
65	70	75	80	85	90	95	100
Ser Trp	Ser Thr	Leu Lys	Thr Gln	Asp Gln	Lys Thr	Val Arg	Lys Ala
105	110	115	120	125	130	135	140
Glu Cys	Arg Ala	Ile His	Cys Pro	Arg Pro	His Asp	Phe Glu	Asn Gly
145	150	155	160	165	170	175	180
Glu Tyr	Trp Pro	Arg Ser	Pro Tyr	Thr Asn	Val Ser	Asp Glu	Ile Ser
185	190	195	200	205	210	215	220
Phe His	Cys Tyr	Asp Gly	Tyr Thr	Leu Arg	Gly Ser	Ala Asn	Arg Thr
225	230	235	240	245	250	255	260
Cys Gln	Val Asn	Gly Arg	Trp Ser	Gly Gln	Thr Ala	Ile Cys	Asp Asn
265	270	275	280	285	290	295	300

Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr Arg Lys  
 165 170 175  
 Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His Cys Ser  
 180 185 190  
 Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln Glu Gly  
 195 200 205  
 Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe Met Tyr  
 210 215 220  
 Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu Thr Glu  
 225 230 235 240  
 Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly Glu Gln  
 245 250 255  
 Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn Ile Tyr  
 260 265 270  
 Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe Thr Gly  
 275 280 285  
 Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser Tyr Gly  
 290 295 300  
 Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro Lys Ile  
 305 310 315 320  
 Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Asp Trp Val Thr  
 325 330 335  
 Lys Gln Leu Asn Glu Ile Asn Tyr Glu Asp His Lys Leu Lys Ser Gly  
 340 345 350  
 Thr Asn Thr Lys Lys Ala Leu Gln Ala Val Tyr Ser Met Met Ser Trp  
 355 360 365  
 Pro Asp Asp Val Pro Pro Glu Gly Trp Asn Arg Thr Arg His Val Ile  
 370 375 380  
 Ile Leu Met Thr Asp Gly Leu His Asn Met Gly Gly Asp Pro Ile Thr  
 385 390 395 400  
 Val Ile Asp Glu Ile Arg Asp Leu Leu Tyr Ile Gly Lys Asp Arg Lys  
 405 410 415  
 Asn Pro Arg Glu Asp Tyr Leu Asp Val Tyr Val Phe Gly Val Gly Pro  
 420 425 430  
 Leu Val Asn Gln Val Asn Ile Asn Ala Leu Ala Ser Lys Lys Asp Asn  
 435 440 445  
 Glu Gln His Val Phe Lys Val Lys Asp Met Glu Asn Leu Glu Asp Val  
 450 455 460  
 Phe Tyr Gln Met Ile Asp Glu Ser Gln Ser Leu Ser Leu Cys Gly Met  
 465 470 475 480  
 Val Trp Glu His Arg Lys Gly Thr Asp Tyr His Lys Gln Pro Trp Gln  
 485 490 495  
 Ala Lys Ile Ser Val Ile Arg Pro Ser Lys Gly His Glu Ser Cys Met  
 500 505 510  
 Gly Ala Val Val Ser Glu Tyr Phe Val Leu Thr Ala Ala His Cys Phe  
 515 520 525  
 Thr Val Asp Asp Lys Glu His Ser Ile Lys Val Ser Val Gly Gly Glu  
 530 535 540  
 Lys Arg Asp Leu Glu Ile Glu Val Val Leu Phe His Pro Asn Tyr Asn  
 545 550 555 560  
 Ile Asn Gly Lys Lys Glu Ala Gly Ile Pro Glu Phe Tyr Asp Tyr Asp  
 565 570 575  
 Val Ala Leu Ile Lys Leu Lys Asn Lys Leu Lys Tyr Gly Gln Thr Ile  
 580 585 590  
 Arg Pro Ile Cys Leu Pro Cys Thr Glu Gly Thr Thr Arg Ala Leu Arg  
 595 600 605  
 Leu Pro Pro Thr Thr Thr Cys Gln Gln Gln Lys Glu Glu Leu Leu Pro  
 610 615 620  
 Ala Gln Asp Ile Lys Ala Leu Phe Val Ser Glu Glu Glu Lys Lys Leu  
 625 630 635 640  
 Thr Arg Lys Glu Val Tyr Ile Lys Asn Gly Asp Lys Lys Gly Ser Cys  
 645 650 655  
 Glu Arg Asp Ala Gln Tyr Ala Pro Gly Tyr Asp Lys Val Lys Asp Ile  
 660 665 670  
 Ser Glu Val Val Thr Pro Arg Phe Leu Cys Thr Gly Gly Val Ser Pro  
 675 680 685  
 Tyr Ala Asp Pro Asn Thr Cys Arg Gly Asp Ser Gly Gly Pro Leu Ile  
 690 695 700  
 Val His Lys Arg Ser Arg Phe Ile Gln Val Gly Val Ile Ser Trp Gly

705  
 Val Val Asp Val Cys Lys Asn Gln Lys Arg Gln Lys Gln Val Pro Ala  
 725 730 735  
 His Ala Arg Asp Phe His Ile Asn Leu Phe Gln Val Leu Pro Trp Leu  
 740 745 750  
 Lys Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu  
 755 760

<210> 320  
 <211> 909  
 <212> PRT  
 <213> Homo sapiens  
 <400> 320

Met Ala Ala Arg Pro Leu Pro Val Ser Pro Ala Arg Ala Leu Leu Leu  
 1 5 10 15  
 Ala Leu Ala Gly Ala Leu Leu Ala Pro Cys Glu Ala Arg Gly Val Ser  
 20 25 30  
 Leu Trp Asn Gln Gly Arg Ala Asp Glu Val Val Ser Ala Ser Val Arg  
 35 40 45  
 Ser Gly Asp Leu Trp Ile Pro Val Lys Ser Phe Asp Ser Lys Asn His  
 50 55 60  
 Pro Glu Val Leu Asn Ile Arg Leu Gln Arg Glu Ser Lys Glu Leu Ile  
 65 70 75 80  
 Ile Asn Leu Glu Arg Asn Glu Gly Leu Ile Ala Ser Ser Phe Thr Glu  
 85 90 95  
 Thr His Tyr Leu Gln Asp Gly Thr Asp Val Ser Leu Ala Arg Asn Tyr  
 100 105 110  
 Thr Val Ile Leu Gly His Cys Tyr Tyr His Gly His Val Arg Gly Tyr  
 115 120 125  
 Ser Asp Ser Ala Val Ser Leu Ser Thr Cys Ser Gly Leu Arg Gly Leu  
 130 135 140  
 Ile Val Phe Glu Asn Glu Ser Tyr Val Leu Glu Pro Met Lys Ser Ala  
 145 150 155 160  
 Thr Asn Arg Tyr Lys Leu Phe Pro Ala Lys Lys Leu Lys Ser Val Arg  
 165 170 175  
 Gly Ser Cys Gly Ser His His Asn Thr Pro Asn Leu Ala Ala Lys Asn  
 180 185 190  
 Val Phe Pro Pro Pro Ser Gln Thr Trp Ala Arg Arg His Lys Arg Glu  
 195 200 205  
 Thr Leu Lys Ala Thr Lys Tyr Val Glu Leu Val Ile Val Ala Asp Asn  
 210 215 220  
 Arg Glu Phe Gln Arg Gln Gly Lys Asp Leu Glu Lys Val Lys Gln Arg  
 225 230 235 240  
 Leu Ile Glu Ile Ala Asn His Val Asp Lys Phe Tyr Arg Pro Leu Asn  
 245 250 255  
 Ile Arg Ile Val Leu Val Gly Val Glu Val Trp Asn Asp Met Asp Lys  
 260 265 270  
 Cys Ser Val Ser Gln Asp Pro Phe Thr Ser Leu His Glu Phe Leu Asp  
 275 280 285  
 Trp Arg Lys Met Lys Leu Leu Pro Arg Lys Ser His Asp Asn Ala Gln  
 290 295 300  
 Leu Val Ser Gly Val Tyr Phe Gln Gly Thr Thr Ile Gly Met Ala Pro  
 305 310 315 320  
 Ile Met Ser Met Cys Thr Ala Asp Gln Ser Gly Gly Ile Val Met Asp  
 325 330 335  
 His Ser Asp Asn Pro Leu Gly Ala Ala Val Thr Leu Ala His Glu Leu  
 340 345 350  
 Gly His Asn Phe Gly Met Asn His Asp Thr Leu Asp Arg Gly Cys Ser  
 355 360 365  
 Cys Gln Met Ala Val Glu Lys Gly Gly Cys Ile Met Asn Ala Ser Thr  
 370 375 380  
 Gly Tyr Pro Phe Pro Met Val Phe Ser Ser Cys Ser Arg Lys Asp Leu  
 385 390 395 400  
 Glu Thr Ser Leu Glu Lys Gly Met Gly Val Cys Leu Phe Asn Leu Pro  
 405 410 415  
 Glu Val Arg Glu Ser Phe Gly Gly Gln Lys Cys Gly Asn Arg Phe Val  
 420 425 430  
 Glu Glu Gly Glu Glu Cys Asp Cys Gly Glu Pro Glu Glu Cys Met Asn  
 435 440 445

Arg Cys Cys Asn Ala Thr Thr Cys Thr Leu Lys Pro Asp Ala Val Cys  
 450 455 460  
 Ala His Gly Leu Cys Cys Glu Asp Cys Gln Leu Lys Pro Ala Gly Thr  
 465 470 475 480  
 Ala Cys Arg Asp Ser Ser Asn Ser Cys Asp Leu Pro Glu Phe Cys Thr  
 485 490 495  
 Gly Ala Ser Pro His Cys Pro Ala Asn Val Tyr Leu His Asp Gly His  
 500 505 510  
 Ser Cys Gln Asp Val Asp Gly Tyr Cys Tyr Asn Gly Ile Cys Gln Thr  
 515 520 525  
 His Glu Gln Gln Cys Val Thr Leu Trp Gly Pro Gly Ala Lys Pro Ala  
 530 535 540  
 Pro Gly Ile Cys Phe Glu Arg Val Asn Ser Ala Gly Asp Pro Tyr Gly  
 545 550 555 560  
 Asn Cys Gly Lys Val Ser Lys Ser Ser Phe Ala Lys Cys Glu Met Arg  
 565 570 575  
 Asp Ala Lys Cys Gly Lys Ile Gln Cys Gln Gly Gly Ala Ser Arg Pro  
 580 585 590  
 Val Ile Gly Thr Asn Ala Val Ser Ile Glu Thr Asn Ile Pro Leu Gln  
 595 600 605  
 Gln Gly Gly Arg Ile Leu Cys Arg Gly Thr His Val Tyr Leu Gly Asp  
 610 615 620  
 Asp Met Pro Asp Pro Gly Leu Val Leu Ala Gly Thr Lys Cys Ala Asp  
 625 630 635 640  
 Gly Lys Ile Cys Leu Asn Arg Gln Cys Gln Asn Ile Ser Val Phe Gly  
 645 650 655  
 Val His Glu Cys Ala Met Gln Cys His Gly Arg Gly Val Cys Asn Asn  
 660 665 670  
 Arg Lys Asn Cys His Cys Glu Ala His Trp Ala Pro Pro Phe Cys Asp  
 675 680 685  
 Lys Phe Gly Phe Gly Gly Ser Thr Asp Ser Gly Pro Ile Arg Gln Ala  
 690 695 700  
 Asp Asn Gln Gly Leu Thr Ile Gly Ile Leu Val Thr Ile Leu Cys Leu  
 705 710 715 720  
 Leu Ala Ala Gly Phe Val Val Tyr Leu Lys Arg Lys Thr Leu Ile Arg  
 725 730 735  
 Leu Leu Phe Thr Asn Lys Lys Thr Thr Ile Glu Lys Leu Arg Cys Val  
 740 745 750  
 Arg Pro Ser Arg Pro Pro Arg Gly Phe Gln Pro Cys Gln Ala His Leu  
 755 760 765  
 Gly His Leu Gly Lys Gly Leu Met Arg Lys Pro Pro Asp Ser Tyr Pro  
 770 775 780  
 Pro Lys Asp Asn Pro Arg Arg Leu Leu Gln Cys Gln Asn Val Asp Ile  
 785 790 795 800  
 Ser Arg Pro Leu Asn Gly Leu Asn Val Pro Gln Pro Gln Ser Thr Gln  
 805 810 815  
 Arg Val Leu Pro Pro Leu His Arg Ala Pro Arg Ala Pro Ser Val Pro  
 820 825 830  
 Ala Arg Pro Leu Pro Ala Lys Pro Ala Leu Arg Gln Ala Gln Gly Thr  
 835 840 845  
 Cys Lys Pro Asn Pro Pro Gln Lys Pro Leu Pro Ala Asp Pro Leu Ala  
 850 855 860  
 Arg Thr Thr Arg Leu Thr His Ala Leu Ala Arg Thr Pro Gly Gln Trp  
 865 870 875 880  
 Glu Thr Gly Leu Arg Leu Ala Pro Leu Arg Pro Ala Pro Gln Tyr Pro  
 885 890 895  
 His Gln Val Pro Arg Ser Thr His Thr Ala Tyr Ile Lys  
 900 905

&lt;210&gt; 321

&lt;211&gt; 574

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Met Ala Leu Ala Arg Gly Ser Arg Gln Leu Gly Ala Leu Val Trp Gly  
 1 5 10 15  
 Ala Cys Leu Cys Val Leu Val His Gly Gln Gln Ala Gln Pro Gly Gln  
 20 25 30  
 Gly Ser Asp Pro Ala Arg Trp Arg Gln Leu Ile Gln Trp Glu Asn Asn

**<210> 322**

<211> 344  
 <212> PRT  
 <213> Homo sapiens  
 <400> 322

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Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu His Val Pro Trp Lys
1      5      10      15
Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
      20      25      30
Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
      35      40      45
Lys Glu Val Leu Leu Leu Ala His Asn Leu Pro Gln Asn Arg Ile Gly
      50      55      60
Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Ser Leu Ile Val
65      70      75      80
Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
      85      90      95
Gly Arg Glu Thr Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Val
      100      105      110
Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu Gln Val Ile Lys Ser Asp
      115      120      125
Leu Val Asn Glu Glu Ala Thr Gly Gln Phe His Val Tyr Pro Glu Leu
      130      135      140
Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Asn Pro Val Glu Asp Lys
145      150      155      160
Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Val Gln Asn Thr Thr Tyr
      165      170      175
Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
      180      185      190
Leu Ser Asn Gly Asn Met Thr Leu Thr Leu Leu Ser Val Lys Arg Asn
      195      200      205
Asp Ala Gly Ser Tyr Glu Cys Glu Ile Gln Asn Pro Ala Ser Ala Asn
210      215      220
Arg Ser Asp Pro Val Thr Leu Asn Val Leu Tyr Gly Pro Asp Val Pro
225      230      235      240
Thr Ile Ser Pro Ser Lys Ala Asn Tyr Arg Pro Gly Glu Asn Leu Asn
      245      250      255
Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe
      260      265      270
Ile Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn
275      280      285
Ile Thr Val Asn Asn Ser Gly Ser Tyr Met Cys Gln Ala His Asn Ser
290      295      300
Ala Thr Gly Leu Asn Arg Thr Thr Val Thr Met Ile Thr Val Ser Gly
305      310      315      320
Ser Ala Pro Val Leu Ser Ala Val Ala Thr Val Gly Ile Thr Ile Gly
      325      330      335
Val Leu Ala Arg Val Ala Leu Ile
      340

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<210> 323  
 <211> 488  
 <212> PRT  
 <213> Homo sapiens  
 <400> 323

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Met Ala Pro Ala Ala Trp Leu Arg Ser Ala Ala Ala Arg Ala Leu Leu
1      5      10      15
Pro Pro Met Leu Leu Leu Leu Leu Gln Pro Pro Pro Leu Leu Ala Arg
      20      25      30
Ala Leu Pro Pro Asp Val His His Leu His Ala Glu Arg Gly Pro
      35      40      45
Gln Pro Trp His Ala Ala Leu Pro Ser Ser Pro Ala Pro Ala Pro Ala
50      55      60
Thr Gln Glu Ala Pro Arg Pro Ala Ser Ser Leu Arg Pro Pro Arg Cys
65      70      75      80
Gly Val Pro Asp Pro Ser Asp Gly Leu Ser Ala Arg Asn Arg Gln Lys
      85      90      95
Arg Phe Val Leu Ser Gly Gly Arg Trp Glu Lys Thr Asp Leu Thr Tyr
100      105      110
Arg Ile Leu Arg Phe Pro Trp Gln Leu Val Gln Glu Gln Val Arg Gln

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115  
 Thr Met Ala Glu Ala Leu Lys Val Trp Ser Asp Val Thr Pro Leu Thr  
 130  
 Phe Thr Glu Val His Glu Gly Arg Ala Asp Ile Met Ile Asp Phe Ala  
 145  
 Arg Tyr Trp His Gly Asp Asp Leu Pro Phe Asp Gly Pro Gly Gly Ile  
 165  
 Leu Ala His Ala Phe Phe Pro Lys Thr His Arg Glu Gly Asp Val His  
 180  
 Phe Asp Tyr Asp Glu Thr Trp Thr Ile Gly Asp Asp Gln Gly Thr Asp  
 195  
 Leu Leu Gln Val Ala Ala His Glu Phe Gly His Val Leu Gly Leu Gln  
 210  
 His Thr Thr Ala Ala Lys Ala Leu Met Ser Ala Phe Tyr Thr Phe Arg  
 225  
 Tyr Pro Leu Ser Leu Ser Pro Asp Asp Cys Arg Gly Val Gln His Leu  
 245  
 Tyr Gly Gln Pro Trp Pro Thr Val Thr Ser Arg Thr Pro Ala Leu Gly  
 260  
 Pro Gln Ala Gly Ile Asp Thr Asn Glu Ile Ala Pro Leu Glu Pro Asp  
 275  
 Ala Pro Pro Asp Ala Cys Glu Ala Ser Phe Asp Ala Val Ser Thr Ile  
 290  
 Arg Gly Glu Leu Phe Phe Phe Lys Ala Gly Phe Val Trp Arg Leu Arg  
 305  
 Gly Gly Gln Leu Gln Pro Gly Tyr Pro Ala Leu Ala Ser Arg His Trp  
 325  
 Gln Gly Leu Pro Ser Pro Val Asp Ala Ala Phe Glu Asp Ala Gln Gly  
 340  
 His Ile Trp Phe Phe Gln Gly Ala Gln Tyr Trp Val Tyr Asp Gly Glu  
 355  
 Lys Pro Val Leu Gly Pro Ala Pro Leu Thr Glu Leu Gly Leu Val Arg  
 370  
 Phe Pro Val His Ala Ala Leu Val Trp Gly Pro Glu Lys Asn Lys Ile  
 385  
 Tyr Phe Phe Arg Gly Arg Asp Tyr Trp Arg Phe His Pro Ser Thr Arg  
 405  
 Arg Val Asp Ser Pro Val Pro Arg Arg Ala Thr Asp Trp Arg Gly Val  
 420  
 Pro Ser Glu Ile Asp Ala Ala Phe Gln Asp Ala Asp Gly Tyr Ala Tyr  
 435  
 Phe Leu Arg Gly Arg Leu Tyr Trp Lys Phe Asp Pro Val Lys Val Lys  
 450  
 Ala Leu Glu Gly Phe Pro Arg Leu Val Gly Pro Asp Phe Phe Gly Cys  
 465  
 Ala Glu Pro Ala Asn Thr Phe Leu  
 485

<210> 324  
 <211> 469  
 <212> PRT  
 <213> Homo sapiens  
 <400> 324

Met His Ser Phe Pro Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val  
 1  
 Ser His Ser Phe Pro Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp  
 20  
 Leu Val Gln Lys Tyr Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly  
 35  
 Arg Gln Val Glu Lys Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu  
 50  
 Lys Gln Met Gln Glu Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp  
 65  
 Ala Glu Thr Leu Lys Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp  
 85  
 Val Ala Gln Phe Val Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr  
 100  
 His Leu Thr Tyr Arg Ile Glu Asn Tyr Thr Pro Asp Leu Pro Arg Ala  
 115  
 120  
 125



Asp Val Asp His Ala Ile Glu Lys Ala Phe Gln Leu Trp Ser Asn Val  
 130 135 140  
 Thr Pro Leu Thr Phe Thr Lys Val Ser Glu Gly Gln Ala Asp Ile Met  
 145 150 155 160  
 Ile Ser Phe Val Arg Gly Asp His Arg Asp Asn Ser Pro Phe Asp Gly  
 165 170 175  
 Pro Gly Gly Asn Leu Ala His Ala Phe Gln Pro Gly Pro Gly Ile Gly  
 180 185 190  
 Gly Asp Ala His Phe Asp Glu Asp Glu Arg Trp Thr Asn Asn Phe Arg  
 195 200 205  
 Glu Tyr Asn Leu His Arg Val Ala Ala His Glu Leu Gly His Ser Leu  
 210 215 220  
 Gly Leu Ser His Ser Thr Asp Ile Gly Ala Leu Met Tyr Pro Ser Tyr  
 225 230 235 240  
 Thr Phe Ser Gly Asp Val Gln Leu Ala Gln Asp Asp Ile Asp Gly Ile  
 245 250 255  
 Gln Ala Ile Tyr Gly Arg Ser Gln Asn Pro Val Gln Pro Ile Gly Pro  
 260 265 270  
 Gln Thr Pro Lys Ala Cys Asp Ser Lys Leu Thr Phe Asp Ala Ile Thr  
 275 280 285  
 Thr Ile Arg Gly Glu Val Met Phe Phe Lys Asp Arg Phe Tyr Met Arg  
 290 295 300  
 Thr Asn Pro Phe Tyr Pro Glu Val Glu Leu Asn Phe Ile Ser Val Phe  
 305 310 315 320  
 Trp Pro Gln Leu Pro Asn Gly Leu Glu Ala Tyr Glu Phe Ala Asp  
 325 330 335  
 Arg Asp Glu Val Arg Phe Phe Lys Gly Asn Lys Tyr Trp Ala Val Gln  
 340 345 350  
 Gly Gln Asn Val Leu His Gly Tyr Pro Lys Asp Ile Tyr Ser Ser Phe  
 355 360 365  
 Gly Phe Pro Arg Thr Val Lys His Ile Asp Ala Ala Leu Ser Glu Glu  
 370 375 380  
 Asn Thr Gly Lys Thr Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr  
 385 390 395 400  
 Asp Glu Tyr Lys Arg Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala  
 405 410 415  
 His Asp Phe Pro Gly Ile Gly His Lys Val Asp Ala Val Phe Met Lys  
 420 425 430  
 Asp Gly Phe Phe Tyr Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp  
 435 440 445  
 Pro Lys Thr Lys Arg Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe  
 450 455 460  
 Asn Cys Arg Lys Asn  
 465

<210> 325  
 <211> 471  
 <212> PRT  
 <213> Homo sapiens  
 <400> 325

Met His Pro Gly Val Leu Ala Ala Phe Leu Phe Leu Ser Trp Thr His  
 1 5 10 15  
 Cys Arg Ala Leu Pro Leu Pro Ser Gly Gly Asp Glu Asp Asp Leu Ser  
 20 25 30  
 Glu Glu Asp Leu Gln Phe Ala Glu Arg Tyr Leu Arg Ser Tyr Tyr His  
 35 40 45  
 Pro Thr Asn Leu Ala Gly Ile Leu Lys Glu Asn Ala Ala Ser Ser Met  
 50 55 60  
 Thr Glu Arg Leu Arg Glu Met Gln Ser Phe Phe Gly Leu Glu Val Thr  
 65 70 75 80  
 Gly Lys Leu Asp Asp Asn Thr Leu Asp Val Met Lys Lys Pro Arg Cys  
 85 90 95  
 Gly Val Pro Asp Val Gly Glu Tyr Asn Val Phe Pro Arg Thr Leu Lys  
 100 105 110  
 Trp Ser Lys Met Asn Leu Thr Tyr Arg Ile Val Asn Tyr Thr Pro Asp  
 115 120 125  
 Met Thr His Ser Glu Val Glu Lys Ala Phe Lys Lys Ala Phe Lys Val  
 130 135 140  
 Trp Ser Asp Val Thr Pro Leu Asn Phe Thr Arg Leu His Asp Gly Ile

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Ala Ala Gln Thr Thr Asp Gly Lys Leu Pro Glu Val Thr Lys Asp Val  
 180 185 190  
 Glu Arg Thr Asp Gly Ala Leu Leu Val Asn Ala Met Phe Phe Lys Pro  
 195 200 205  
 His Trp Asp Glu Lys Phe His His Lys Met Val Asp Asn Arg Gly Phe  
 210 215 220  
 Met Val Thr Arg Ser Tyr Thr Val Gly Val Met Met His Arg Thr  
 225 230 235 240  
 Gly Leu Tyr Asn Tyr Tyr Asp Asp Glu Lys Glu Lys Leu Gln Ile Val  
 245 250 255  
 Glu Met Pro Leu Ala His Lys Leu Ser Ser Leu Ile Ile Leu Met Pro  
 260 265 270  
 His His Val Glu Pro Leu Glu Arg Leu Glu Lys Leu Leu Thr Lys Glu  
 275 280 285  
 Gln Leu Lys Ile Trp Met Gly Lys Met Gln Lys Lys Ala Val Ala Ile  
 290 295 300  
 Ser Leu Pro Lys Gly Val Val Glu Val Thr His Asp Leu Gln Lys His  
 305 310 315 320  
 Leu Ala Gly Leu Gly Leu Thr Glu Ala Ile Asp Lys Asn Lys Ala Asp  
 325 330 335  
 Leu Ser Arg Met Ser Gly Lys Lys Asp Leu Tyr Leu Ala Ser Val Phe  
 340 345 350  
 His Ala Thr Ala Phe Glu Leu Asp Thr Asp Gly Asn Pro Phe Asp Gln  
 355 360 365  
 Asp Ile Tyr Gly Arg Glu Glu Leu Arg Ser Pro Lys Leu Phe Tyr Ala  
 370 375 380  
 Asp His Pro Phe Ile Phe Leu Val Arg Asp Thr Gln Ser Gly Ser Leu  
 385 390 395 400  
 Leu Phe Ile Gly Arg Leu Val Arg Pro Lys Gly Asp Lys Met Arg Asp  
 405 410 415  
 Glu Leu

<210> 327  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens  
 <400> 327

Met Asp Ala Phe Lys Gly Gly Met Ser Leu Glu Arg Leu Pro Glu Gly  
 1 5 10 15  
 Leu Arg Pro Pro Pro Pro Pro His Asp Met Gly Pro Ala Phe His  
 20 25 30  
 Leu Ala Arg Pro Ala Asp Pro Arg Glu Pro Leu Glu Asn Ser Ala Ser  
 35 40 45  
 Glu Ser Ser Asp Thr Glu Leu Pro Glu Lys Glu Arg Gly Gly Glu Pro  
 50 55 60  
 Lys Gly Pro Glu Asp Ser Gly Ala Gly Gly Thr Gly Cys Gly Gly Ala  
 65 70 75 80  
 Asp Asp Pro Ala Lys Lys Lys Lys Gln Arg Arg Gln Arg Thr His Phe  
 85 90 95  
 Thr Ser Gln Gln Leu Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg  
 100 105 110  
 Tyr Pro Asp Met Ser Met Arg Glu Glu Ile Ala Val Trp Thr Asn Leu  
 115 120 125  
 Thr Glu Pro Arg Val Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp  
 130 135 140  
 Arg Lys Arg Glu Arg Asn Gln Gln Leu Asp Leu Cys Lys Gly Gly Tyr  
 145 150 155 160  
 Val Pro Gln Phe Ser Gly Leu Val Gln Pro Tyr Glu Asp Val Tyr Ala  
 165 170 175  
 Ala Gly Tyr Ser Tyr Asn Asn Trp Ala Ala Lys Ser Leu Ala Pro Ala  
 180 185 190  
 Pro Leu Ser Thr Lys Ser Phe Thr Phe Phe Asn Ser Met Ser Pro Leu  
 195 200 205  
 Ser Ser Gln Ser Met Phe Ser Ala Pro Ser Ser Ile Ser Ser Met Thr  
 210 215 220  
 Met Pro Ser Ser Met Gly Pro Gly Ala Val Pro Gly Met Pro Asn Ser  
 225 230 235 240  
 Gly Leu Asn Asn Ile Asn Asn Leu Thr Gly Ser Ser Leu Asn Ser Ala

245  
 Met Ser Pro Gly Ala Cys Pro Tyr Gly Thr Pro Ala Ser Pro Tyr Ser  
 260 265 270  
 Val Tyr Arg Asp Thr Cys Asn Ser Ser Leu Ala Ser Leu Arg Leu Lys  
 275 280 285  
 Ser Lys Gln His Ser Ser Phe Gly Tyr Gly Ala Leu Gln Gly Pro Ala  
 290 295 300  
 Ser Gly Leu Asn Ala Cys Gln Tyr Asn Ser  
 305 310

<210> 328  
 <211> 2828  
 <212> PRT  
 <213> Homo sapiens  
 <400> 328

Met Pro Lys Arg Ala His Trp Gly Ala Leu Ser Val Val Leu Ile Leu  
 1 5 10 15  
 Leu Trp Gly His Pro Arg Val Ala Leu Ala Cys Pro His Pro Cys Ala  
 20 25 30  
 Cys Tyr Val Pro Ser Glu Val His Cys Thr Phe Arg Ser Leu Ala Ser  
 35 40 45  
 Val Pro Ala Gly Ile Ala Arg His Val Glu Arg Ile Asn Leu Gly Phe  
 50 55 60  
 Asn Ser Ile Gln Ala Leu Ser Glu Thr Ser Phe Ala Gly Leu Thr Lys  
 65 70 75 80  
 Leu Glu Leu Leu Met Ile His Gly Asn Glu Ile Pro Ser Ile Pro Asp  
 85 90 95  
 Gly Ala Leu Arg Asp Leu Ser Ser Leu Gln Val Phe Lys Phe Ser Tyr  
 100 105 110  
 Asn Lys Leu Arg Val Ile Thr Gly Gln Thr Leu Gln Gly Leu Ser Asn  
 115 120 125  
 Leu Met Arg Leu His Ile Asp His Asn Lys Ile Glu Phe Ile His Pro  
 130 135 140  
 Gln Ala Phe Asn Gly Leu Thr Ser Leu Arg Leu Leu His Leu Glu Gly  
 145 150 155 160  
 Asn Leu Leu His Gln Leu His Pro Ser Thr Phe Ser Thr Phe Thr Phe  
 165 170 175  
 Leu Asp Tyr Phe Arg Leu Ser Thr Ile Arg His Leu Tyr Leu Ala Glu  
 180 185 190  
 Asn Met Val Arg Thr Leu Pro Ala Ser Met Leu Arg Asn Met Pro Leu  
 195 200 205  
 Leu Glu Asn Leu Tyr Leu Gln Gly Asn Pro Trp Thr Cys Asp Cys Glu  
 210 215 220  
 Met Arg Trp Phe Leu Glu Trp Asp Ala Lys Ser Arg Gly Ile Leu Lys  
 225 230 235 240  
 Cys Lys Lys Asp Lys Ala Tyr Glu Gly Gly Gln Leu Cys Ala Met Cys  
 245 250 255  
 Phe Ser Pro Lys Lys Leu Tyr Lys His Glu Ile His Lys Leu Lys Asp  
 260 265 270  
 Met Thr Cys Leu Lys Pro Ser Ile Glu Ser Pro Leu Arg Gln Asn Arg  
 275 280 285  
 Ser Arg Ser Ile Glu Glu Glu Gln Glu Glu Glu Glu Asp Gly Gly Ser  
 290 295 300  
 Gln Leu Ile Leu Glu Lys Phe Gln Leu Pro Gln Trp Ser Ile Ser Leu  
 305 310 315 320  
 Asn Met Thr Asp Glu His Gly Asn Met Val Asn Leu Val Cys Asp Ile  
 325 330 335  
 Lys Lys Pro Met Asp Val Tyr Lys Ile His Leu Asn Gln Thr Asp Pro  
 340 345 350  
 Pro Asp Ile Asp Ile Asn Ala Thr Val Ala Leu Asp Phe Glu Cys Pro  
 355 360 365  
 Met Thr Arg Glu Asn Tyr Glu Lys Leu Trp Lys Leu Ile Ala Tyr Tyr  
 370 375 380  
 Ser Glu Val Pro Val Lys Leu His Arg Glu Leu Met Leu Ser Lys Asp  
 385 390 395 400  
 Pro Arg Val Ser Tyr Gln Tyr Arg Gln Asp Ala Asp Glu Glu Ala Leu  
 405 410 415  
 Tyr Tyr Thr Gly Val Arg Ala Gln Ile Leu Ala Glu Pro Glu Trp Val  
 420 425 430

Met Gln Pro Ser Ile Asp Ile Gln Leu Asn Arg Arg Gln Ser Thr Ala  
 435 440 445  
 Lys Lys Val Leu Leu Ser Tyr Tyr Thr Gln Tyr Ser Gln Thr Ile Ser  
 450 455 460  
 Thr Lys Asp Thr Arg Gln Ala Arg Gly Arg Ser Trp Val Met Ile Glu  
 465 470 475 480  
 Pro Ser Gly Ala Val Gln Arg Asp Gln Thr Val Leu Glu Gly Gly Pro  
 485 490 495  
 Cys Gln Leu Ser Cys Asn Val Lys Ala Ser Glu Ser Pro Ser Ile Phe  
 500 505 510  
 Trp Val Leu Pro Asp Gly Ser Ile Leu Lys Ala Pro Met Asp Asp Pro  
 515 520 525  
 Asp Ser Lys Phe Ser Ile Leu Ser Ser Gly Trp Leu Arg Ile Lys Ser  
 530 535 540  
 Met Glu Pro Ser Asp Ser Gly Leu Tyr Gln Cys Ile Ala Gln Val Arg  
 545 550 555 560  
 Asp Glu Met Asp Arg Met Val Tyr Arg Val Leu Val Gln Ser Pro Ser  
 565 570 575  
 Thr Gln Pro Ala Glu Lys Asp Thr Val Thr Ile Gly Lys Asn Pro Gly  
 580 585 590  
 Glu Ser Val Thr Leu Pro Cys Asn Ala Leu Ala Ile Pro Glu Ala His  
 595 600 605  
 Leu Ser Trp Ile Leu Pro Asn Arg Arg Ile Ile Asn Asp Leu Ala Asn  
 610 615 620  
 Thr Ser His Val Tyr Met Leu Pro Asn Gly Thr Leu Ser Ile Pro Lys  
 625 630 635 640  
 Val Gln Val Ser Asp Ser Gly Tyr Tyr Arg Cys Val Ala Val Asn Gln  
 645 650 655  
 Gln Gly Ala Asp His Phe Thr Val Gly Ile Thr Val Thr Lys Lys Gly  
 660 665 670  
 Ser Gly Leu Pro Ser Lys Arg Gly Arg Arg Pro Gly Ala Lys Ala Leu  
 675 680 685  
 Ser Arg Val Arg Glu Asp Ile Val Glu Asp Glu Gly Gly Ser Gly Met  
 690 695 700  
 Gly Asp Glu Glu Asn Thr Ser Arg Arg Leu Leu His Pro Lys Asp Gln  
 705 710 715 720  
 Glu Val Phe Leu Lys Thr Lys Asp Asp Ala Ile Asn Gly Asp Lys Lys  
 725 730 735  
 Ala Lys Lys Gly Arg Arg Lys Leu Lys Leu Trp Lys His Ser Glu Lys  
 740 745 750  
 Glu Pro Glu Thr Asn Val Ala Glu Gly Arg Arg Val Phe Glu Ser Arg  
 755 760 765  
 Arg Arg Ile Asn Met Ala Asn Lys Gln Ile Asn Pro Glu Arg Trp Ala  
 770 775 780  
 Asp Ile Leu Ala Lys Val Arg Gly Lys Asn Leu Pro Lys Gly Thr Glu  
 785 790 795 800  
 Val Pro Pro Leu Ile Lys Thr Thr Ser Pro Pro Ser Leu Ser Leu Glu  
 805 810 815  
 Val Thr Pro Pro Phe Pro Ala Val Ser Pro Pro Ser Ala Ser Pro Val  
 820 825 830  
 Gln Thr Val Thr Ser Ala Glu Glu Ser Ser Ala Asp Val Pro Leu Leu  
 835 840 845  
 Gly Glu Glu Glu His Val Leu Gly Thr Ile Ser Ser Ala Ser Met Gly  
 850 855 860  
 Leu Glu His Asn His Asn Gly Val Ile Leu Val Glu Pro Glu Val Thr  
 865 870 875 880  
 Ser Thr Pro Leu Glu Glu Val Val Asp Asp Leu Ser Glu Lys Thr Glu  
 885 890 895  
 Glu Ile Thr Ser Thr Glu Gly Asp Leu Lys Gly Thr Ala Ala Pro Thr  
 900 905 910  
 Leu Ile Ser Glu Pro Tyr Glu Pro Ser Pro Thr Leu His Thr Leu Asp  
 915 920 925  
 Thr Val Tyr Glu Lys Pro Thr His Glu Glu Thr Ala Thr Glu Gly Trp  
 930 935 940  
 Ser Ala Ala Asp Val Gly Ser Ser Pro Glu Pro Thr Ser Ser Glu Tyr  
 945 950 955 960  
 Glu Pro Pro Leu Asp Ala Val Ser Leu Ala Glu Ser Glu Pro Met Gln  
 965 970 975  
 Tyr Phe Asp Pro Asp Leu Glu Thr Lys Ser Gln Pro Asp Glu Asp Lys

980					985					990					
Met	Lys	Glu	Asp	Thr	Phe	Ala	His	Leu	Thr	Pro	Thr	Pro	Thr	Ile	Trp
Val	Asn	Asp	Ser	Ser	Thr	Ser	Gln	Leu	Phe	Glu	Asp	Ser	Thr	Ile	
Gly	Glu	Pro	Gly	Val	Pro	Gly	Gln	Ser	His	Leu	Gln	Gly	Leu	Thr	
Asp	Asn	Ile	His	Leu	Val	Lys	Ser	Ser	Leu	Ser	Thr	Gln	Asp	Thr	
Leu	Leu	Ile	Lys	Lys	Gly	Met	Lys	Glu	Met	Ser	Gln	Thr	Leu	Gln	
Gly	Gly	Asn	Met	Leu	Glu	Gly	Asp	Pro	Thr	His	Ser	Arg	Ser	Ser	
Glu	Ser	Glu	Gly	Gln	Glu	Ser	Lys	Ser	Ile	Thr	Leu	Pro	Asp	Ser	
Thr	Leu	Gly	Ile	Met	Ser	Ser	Met	Ser	Pro	Val	Lys	Lys	Pro	Ala	
Glu	Thr	Thr	Val	Gly	Thr	Leu	Leu	Asp	Lys	Asp	Thr	Thr	Thr	Val	
Thr	Thr	Thr	Pro	Arg	Gln	Lys	Val	Ala	Pro	Ser	Ser	Thr	Met	Ser	
Thr	His	Pro	Ser	Arg	Arg	Arg	Pro	Asn	Gly	Arg	Arg	Arg	Leu	Arg	
Pro	Asn	Lys	Phe	Arg	His	Arg	His	Lys	Gln	Thr	Pro	Pro	Thr	Thr	
Phe	Ala	Pro	Ser	Glu	Thr	Phe	Ser	Thr	Gln	Pro	Thr	Gln	Ala	Pro	
Asp	Ile	Lys	Ile	Ser	Ser	Gln	Val	Glu	Ser	Ser	Leu	Val	Pro	Thr	
Ala	Trp	Val	Asp	Asn	Thr	Val	Asn	Thr	Pro	Lys	Gln	Leu	Glu	Met	
Glu	Lys	Asn	Ala	Glu	Pro	Thr	Ser	Lys	Gly	Thr	Pro	Arg	Arg	Lys	
His	Gly	Lys	Arg	Pro	Asn	Lys	His	Arg	Tyr	Thr	Pro	Ser	Thr	Val	
Ser	Ser	Arg	Ala	Ser	Gly	Ser	Lys	Pro	Ser	Pro	Ser	Pro	Glu	Asn	
Lys	His	Arg	Asn	Ile	Val	Thr	Pro	Ser	Ser	Glu	Thr	Ile	Leu	Leu	
Pro	Arg	Thr	Val	Ser	Leu	Lys	Thr	Glu	Gly	Pro	Tyr	Asp	Ser	Leu	
Asp	Tyr	Met	Thr	Thr	Thr	Arg	Lys	Ile	Tyr	Ser	Ser	Tyr	Pro	Lys	
Val	Gln	Glu	Thr	Leu	Pro	Val	Thr	Tyr	Lys	Pro	Thr	Ser	Asp	Gly	
Lys	Glu	Ile	Lys	Asp	Asp	Val	Ala	Thr	Asn	Val	Asp	Lys	His	Lys	
Ser	Asp	Ile	Leu	Val	Thr	Gly	Glu	Ser	Ile	Thr	Asn	Ala	Ile	Pro	
Thr	Ser	Arg	Ser	Leu	Val	Ser	Thr	Met	Gly	Glu	Phe	Lys	Glu	Glu	
Ser	Ser	Pro	Val	Gly	Phe	Pro	Gly	Thr	Pro	Thr	Trp	Asn	Pro	Ser	
Arg	Thr	Ala	Gln	Pro	Gly	Arg	Leu	Gln	Thr	Asp	Ile	Pro	Val	Thr	
Thr	Ser	Gly	Glu	Asn	Leu	Thr	Asp	Pro	Pro	Leu	Leu	Lys	Glu	Leu	
Glu	Asp	Val	Asp	Phe	Thr	Ser	Glu	Phe	Leu	Ser	Ser	Leu	Thr	Val	
Ser	Thr	Pro	Phe	His	Gln	Glu	Glu	Ala	Gly	Ser	Ser	Thr	Thr	Leu	
Ser	Ser	Ile	Lys	Val	Glu	Val	Ala	Ser	Ser	Gln	Ala	Glu	Thr	Thr	
Thr	Leu	Asp	Gln	Asp	His	Leu	Glu	Thr	Thr	Val	Ala	Ile	Leu	Leu	
Ser	Glu	Thr	Arg	Pro	Gln	Asn	His	Thr	Pro	Thr	Ala	Ala	Arg	Met	
Lys	Glu	Pro	Ala	Ser	Ser	Ser	Pro	Ser	Thr	Ile	Leu	Met	Ser	Leu	
	1490					1495					1500				

Gly	Gln	Thr	Thr	Thr	Thr	Lys	Pro	Ala	Leu	Pro	Ser	Pro	Arg	Ile
1505						1510					1515			
Ser	Gln	Ala	Ser	Arg	Asp	Ser	Lys	Glu	Asn	Val	Phe	Leu	Asn	Tyr
1520						1525					1530			
Val	Gly	Asn	Pro	Glu	Thr	Glu	Ala	Thr	Pro	Val	Asn	Asn	Glu	Gly
1535						1540					1545			
Thr	Gln	His	Met	Ser	Gly	Pro	Asn	Glu	Leu	Ser	Thr	Pro	Ser	Ser
1550						1555					1560			
Asp	Arg	Asp	Ala	Phe	Asn	Leu	Ser	Thr	Lys	Leu	Glu	Leu	Glu	Lys
1565						1570					1575			
Gln	Val	Phe	Gly	Ser	Arg	Ser	Leu	Pro	Arg	Gly	Pro	Asp	Ser	Gln
1580						1585					1590			
Arg	Gln	Asp	Gly	Arg	Val	His	Ala	Ser	His	Gln	Leu	Thr	Arg	Val
1595						1600					1605			
Pro	Ala	Lys	Pro	Ile	Leu	Pro	Thr	Ala	Thr	Val	Arg	Leu	Pro	Glu
1610						1615					1620			
Met	Ser	Thr	Gln	Ser	Ala	Ser	Arg	Tyr	Phe	Val	Thr	Ser	Gln	Ser
1625						1630					1635			
Pro	Arg	His	Trp	Thr	Asn	Lys	Pro	Glu	Ile	Thr	Thr	Tyr	Pro	Ser
1640						1645					1650			
Gly	Ala	Leu	Pro	Glu	Asn	Lys	Gln	Phe	Thr	Thr	Pro	Arg	Leu	Ser
1655						1660					1665			
Ser	Thr	Thr	Ile	Pro	Leu	Pro	Leu	His	Met	Ser	Lys	Pro	Ser	Ile
1670						1675					1680			
Pro	Ser	Lys	Phe	Thr	Asp	Arg	Arg	Thr	Asp	Gln	Phe	Asn	Gly	Tyr
1685						1690					1695			
Ser	Lys	Val	Phe	Gly	Asn	Asn	Asn	Ile	Pro	Glu	Ala	Arg	Asn	Pro
1700						1705					1710			
Val	Gly	Lys	Pro	Pro	Ser	Pro	Arg	Ile	Pro	His	Tyr	Ser	Asn	Gly
1715						1720					1725			
Arg	Leu	Pro	Phe	Phe	Thr	Asn	Lys	Thr	Leu	Ser	Phe	Pro	Gln	Leu
1730						1735					1740			
Gly	Val	Thr	Arg	Arg	Pro	Gln	Ile	Pro	Thr	Ser	Pro	Ala	Pro	Val
1745						1750					1755			
Met	Arg	Glu	Arg	Lys	Val	Ile	Pro	Gly	Ser	Tyr	Asn	Arg	Ile	His
1760						1765					1770			
Ser	His	Ser	Thr	Phe	His	Leu	Asp	Phe	Gly	Pro	Pro	Ala	Pro	Pro
1775						1780					1785			
Leu	Leu	His	Thr	Pro	Gln	Thr	Thr	Gly	Ser	Pro	Ser	Thr	Asn	Leu
1790						1795					1800			
Gln	Asn	Ile	Pro	Met	Val	Ser	Ser	Thr	Gln	Ser	Ser	Ile	Ser	Phe
1805						1810					1815			
Ile	Thr	Ser	Ser	Val	Gln	Ser	Ser	Gly	Ser	Phe	His	Gln	Ser	Ser
1820						1825					1830			
Ser	Lys	Phe	Phe	Ala	Gly	Gly	Pro	Pro	Ala	Ser	Lys	Phe	Trp	Ser
1835						1840					1845			
Leu	Gly	Glu	Lys	Pro	Gln	Ile	Leu	Thr	Lys	Ser	Pro	Gln	Thr	Val
1850						1855					1860			
Ser	Val	Thr	Ala	Glu	Thr	Asp	Thr	Val	Phe	Pro	Cys	Glu	Ala	Thr
1865						1870					1875			
Gly	Lys	Pro	Lys	Pro	Phe	Val	Thr	Trp	Thr	Lys	Val	Ser	Thr	Gly
1880						1885					1890			
Ala	Leu	Met	Thr	Pro	Asn	Thr	Arg	Ile	Gln	Arg	Phe	Glu	Val	Leu
1895						1900					1905			
Lys	Asn	Gly	Thr	Leu	Val	Ile	Arg	Lys	Val	Gln	Val	Gln	Asp	Arg
1910						1915					1920			
Gly	Gln	Tyr	Met	Cys	Thr	Ala	Ser	Asn	Leu	His	Gly	Leu	Asp	Arg
1925						1930					1935			
Met	Val	Val	Leu	Leu	Ser	Val	Thr	Val	Gln	Gln	Pro	Gln	Ile	Leu
1940						1945					1950			
Ala	Ser	His	Tyr	Gln	Asp	Val	Thr	Val	Tyr	Leu	Gly	Asp	Thr	Ile
1955						1960					1965			
Ala	Met	Glu	Cys	Leu	Ala	Lys	Gly	Thr	Pro	Ala	Pro	Gln	Ile	Ser
1970						1975					1980			
Trp	Ile	Phe	Pro	Asp	Arg	Arg	Val	Trp	Gln	Thr	Val	Ser	Pro	Val
1985						1990					1995			
Glu	Ser	Arg	Ile	Thr	Leu	His	Glu	Asn	Arg	Thr	Leu	Ser	Ile	Lys
2000						2005					2010			
Glu	Ala	Ser	Phe	Ser	Asp	Arg	Gly	Val	Tyr	Lys	Cys	Val	Ala	Ser

2015	Asn	Ala	Ala	Gly	Ala	Asp	2020	Ser	Leu	Ala	Ile	Arg	2025	Leu	His	Val	Ala
2030	Ala	Leu	Pro	Pro	Val	Ile	2035	His	Gln	Glu	Lys	Leu	2040	Glu	Asn	Ile	Ser
2045	Leu	Pro	Pro	Gly	Leu	Ser	2050	Ile	His	Ile	His	Cys	2055	Thr	Ala	Lys	Ala
2060	Ala	Pro	Leu	Pro	Ser	Val	2065	Arg	Trp	Val	Leu	Gly	2070	Asp	Gly	Thr	Gln
2075	Ile	Arg	Pro	Ser	Gln	Phe	2080	Leu	His	Gly	Asn	Leu	2085	Phe	Val	Phe	Pro
2090	Asn	Gly	Thr	Leu	Tyr	Ile	2095	Arg	Asn	Leu	Ala	Pro	2100	Lys	Asp	Ser	Gly
2105	Arg	Tyr	Glu	Cys	Val	Ala	2110	Ala	Asn	Leu	Val	Gly	2115	Ser	Ala	Arg	Arg
2120	Thr	Val	Gln	Leu	Asn	Val	2125	Gln	Arg	Ala	Ala	Ala	2130	Asn	Ala	Arg	Ile
2135	Thr	Gly	Thr	Ser	Pro	Arg	2140	Arg	Thr	Asp	Val	Arg	2145	Tyr	Gly	Gly	Thr
2150	Leu	Lys	Leu	Asp	Cys	Ser	2155	Ala	Ser	Gly	Asp	Pro	2160	Trp	Pro	Arg	Ile
2165	Leu	Trp	Arg	Leu	Pro	Ser	2170	Lys	Arg	Met	Ile	Asp	2175	Ala	Leu	Phe	Ser
2180	Phe	Asp	Ser	Arg	Ile	Lys	2185	Val	Phe	Ala	Asn	Gly	2190	Thr	Leu	Val	Val
2195	Lys	Ser	Val	Thr	Asp	Lys	2200	Asp	Ala	Gly	Asp	Tyr	2205	Leu	Cys	Val	Ala
2210	Arg	Asn	Lys	Val	Gly	Asp	2215	Asp	Tyr	Val	Val	Leu	2220	Lys	Val	Asp	Val
2225	Val	Met	Lys	Pro	Ala	Lys	2230	Ile	Glu	His	Lys	Glu	2235	Glu	Asn	Asp	His
2240	Lys	Val	Phe	Tyr	Gly	Gly	2245	Asp	Leu	Lys	Val	Asp	2250	Cys	Val	Ala	Thr
2255	Gly	Leu	Pro	Asn	Pro	Glu	2260	Ile	Ser	Trp	Ser	Leu	2265	Pro	Asp	Gly	Ser
2270	Leu	Val	Asn	Ser	Phe	Met	2275	Gln	Ser	Asp	Asp	Ser	2280	Gly	Gly	Arg	Thr
2285	Lys	Arg	Tyr	Val	Val	Phe	2290	Asn	Asn	Gly	Thr	Leu	2295	Tyr	Phe	Asn	Glu
2300	Val	Gly	Met	Arg	Glu	Glu	2305	Gly	Asp	Tyr	Thr	Cys	2310	Phe	Ala	Glu	Asn
2315	Gln	Val	Gly	Lys	Asp	Glu	2320	Met	Arg	Val	Arg	Val	2325	Lys	Val	Val	Thr
2330	Ala	Pro	Ala	Thr	Ile	Arg	2335	Asn	Lys	Thr	Tyr	Leu	2340	Ala	Val	Gln	Val
2345	Pro	Tyr	Gly	Asp	Val	Val	2350	Thr	Val	Ala	Cys	Glu	2355	Ala	Lys	Gly	Glu
2360	Pro	Met	Pro	Lys	Val	Thr	2365	Trp	Leu	Ser	Pro	Thr	2370	Asn	Lys	Val	Ile
2375	Pro	Thr	Ser	Ser	Glu	Lys	2380	Tyr	Gln	Ile	Tyr	Gln	2385	Asp	Gly	Thr	Leu
2390	Leu	Ile	Gln	Lys	Ala	Gln	2395	Arg	Ser	Asp	Ser	Gly	2400	Asn	Tyr	Thr	Cys
2405	Leu	Val	Arg	Asn	Ser	Ala	2410	Gly	Glu	Asp	Arg	Lys	2415	Thr	Val	Trp	Ile
2420	His	Val	Asn	Val	Gln	Pro	2425	Pro	Lys	Ile	Asn	Gly	2430	Asn	Pro	Asn	Pro
2435	Ile	Thr	Thr	Val	Arg	Glu	2440	Ile	Ala	Ala	Gly	Gly	2445	Ser	Arg	Lys	Leu
2450	Ile	Asp	Cys	Lys	Ala	Glu	2455	Gly	Ile	Pro	Thr	Pro	2460	Arg	Val	Leu	Trp
2465	Ala	Phe	Pro	Glu	Gly	Val	2470	Val	Leu	Pro	Ala	Pro	2475	Tyr	Tyr	Gly	Asn
2480	Arg	Ile	Thr	Val	His	Gly	2485	Asn	Gly	Ser	Leu	Asp	2490	Ile	Arg	Ser	Leu
2495	Arg	Lys	Ser	Asp	Ser	Val	2500	Gln	Leu	Val	Cys	Met	2505	Ala	Arg	Asn	Glu
2510	Gly	Gly	Glu	Ala	Arg	Leu	2515	Ile	Val	Gln	Leu	Thr	2520	Val	Leu	Glu	Pro
2525							2530						2535				



Met	Glu	Lys	Pro	Ile	Phe	His	Asp	Pro	Ile	Ser	Glu	Lys	Ile	Thr
2540						2545					2550			
Ala	Met	Ala	Gly	His	Thr	Ile	Ser	Leu	Asn	Cys	Ser	Ala	Ala	Gly
2555						2560					2565			
Thr	Pro	Thr	Pro	Ser	Leu	Val	Trp	Val	Leu	Pro	Asn	Gly	Thr	Asp
2570						2575					2580			
Leu	Gln	Ser	Gly	Gln	Gln	Leu	Gln	Arg	Phe	Tyr	His	Lys	Ala	Asp
2585						2590					2595			
Gly	Met	Leu	His	Ile	Ser	Gly	Leu	Ser	Ser	Val	Asp	Ala	Gly	Ala
2600						2605					2610			
Tyr	Arg	Cys	Val	Ala	Arg	Asn	Ala	Ala	Gly	His	Thr	Glu	Arg	Leu
2615						2620					2625			
Val	Ser	Leu	Lys	Val	Gly	Leu	Lys	Pro	Glu	Ala	Asn	Lys	Gln	Tyr
2630						2635					2640			
His	Asn	Leu	Val	Ser	Ile	Ile	Asn	Gly	Glu	Thr	Leu	Lys	Leu	Pro
2645						2650					2655			
Cys	Thr	Pro	Pro	Gly	Ala	Gly	Gln	Gly	Arg	Phe	Ser	Trp	Thr	Leu
2660						2665					2670			
Pro	Asn	Gly	Met	His	Leu	Glu	Gly	Pro	Gln	Thr	Leu	Gly	Arg	Val
2675						2680					2685			
Ser	Leu	Leu	Asp	Asn	Gly	Thr	Leu	Thr	Val	Arg	Glu	Ala	Ser	Val
2690						2695					2700			
Phe	Asp	Arg	Gly	Thr	Tyr	Val	Cys	Arg	Met	Glu	Thr	Glu	Tyr	Gly
2705						2710					2715			
Pro	Ser	Val	Thr	Ser	Ile	Pro	Val	Ile	Val	Ile	Ala	Tyr	Pro	Pro
2720						2725					2730			
Arg	Ile	Thr	Ser	Glu	Pro	Thr	Pro	Val	Ile	Tyr	Thr	Arg	Pro	Gly
2735						2740					2745			
Asn	Thr	Val	Lys	Leu	Asn	Cys	Met	Ala	Met	Gly	Ile	Pro	Lys	Ala
2750						2755					2760			
Asp	Ile	Thr	Trp	Glu	Leu	Pro	Asp	Lys	Ser	His	Leu	Lys	Ala	Gly
2765						2770					2775			
Val	Gln	Ala	Arg	Leu	Tyr	Gly	Asn	Arg	Phe	Leu	His	Pro	Gln	Gly
2780						2785					2790			
Ser	Leu	Thr	Ile	Gln	His	Ala	Thr	Gln	Arg	Asp	Ala	Gly	Phe	Tyr
2795						2800					2805			
Lys	Cys	Met	Ala	Lys	Asn	Ile	Leu	Gly	Ser	Asp	Ser	Lys	Thr	Thr
2810						2815					2820			
Tyr	Ile	His	Val	Phe										
2825														

&lt;210&gt; 329

&lt;211&gt; 426

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

Met	Pro	Leu	Leu	Trp	Leu	Arg	Gly	Phe	Leu	Leu	Ala	Ser	Cys	Trp	Ile
1			5					10						15	
Ile	Val	Arg	Ser	Ser	Pro	Thr	Pro	Gly	Ser	Glu	Gly	His	Ser	Ala	Ala
			20					25					30		
Pro	Asp	Cys	Pro	Ser	Cys	Ala	Leu	Ala	Ala	Leu	Pro	Lys	Asp	Val	Pro
		35				40						45			
Asn	Ser	Gln	Pro	Glu	Met	Val	Glu	Ala	Val	Lys	Lys	His	Ile	Leu	Asn
		50				55					60				
Met	Leu	His	Leu	Lys	Lys	Arg	Pro	Asp	Val	Thr	Gln	Pro	Val	Pro	Lys
65				70				75						80	
Ala	Ala	Leu	Leu	Asn	Ala	Ile	Arg	Lys	Leu	His	Val	Gly	Lys	Val	Gly
			85					90					95		
Glu	Asn	Gly	Tyr	Val	Glu	Ile	Glu	Asp	Ile	Gly	Arg	Arg	Ala	Glu	
		100					105					110			
Met	Asn	Glu	Leu	Met	Glu	Gln	Thr	Ser	Glu	Ile	Ile	Thr	Phe	Ala	Glu
	115					120						125			
Ser	Gly	Thr	Ala	Arg	Lys	Thr	Leu	His	Phe	Glu	Ile	Ser	Lys	Glu	Gly
	130					135					140				
Ser	Asp	Leu	Ser	Val	Val	Glu	Arg	Ala	Glu	Val	Trp	Leu	Phe	Leu	Lys
145				150				155						160	
Val	Pro	Lys	Ala	Asn	Arg	Thr	Arg	Thr	Lys	Val	Thr	Ile	Arg	Leu	Phe
			165					170					175		
Gln	Gln	Gln	Lys	His	Pro	Gln	Gly	Ser	Leu	Asp	Thr	Gly	Glu	Glu	Ala

180  
 Glu Glu Val Gly Leu Lys Gly Glu 185  
 195  
 Lys Val Val Asp Ala Arg Lys Ser Thr Trp His Val 190  
 210  
 Ser Ser Ile Gln Arg Leu Asp Gln Gly Lys Ser Ser Leu Asp Val  
 225 230  
 Arg Ile Ala Cys Glu Gln Cys Gln Glu Ser Gly Ala Ser Leu Val Leu  
 245  
 Leu Gly Lys Lys Lys Lys Glu Glu Glu Gly Glu Gly Lys Lys Lys  
 260  
 Gly Gly Gly Glu Gly Gly Ala Gly Ala Asp Glu Glu Lys Glu Gln Ser  
 275  
 His Arg Pro Phe Leu Met Leu Gln Ala Arg Gln Ser Glu Asp His Pro  
 290  
 His Arg Arg Arg Arg Arg Gly Leu Glu Cys Asp Gly Lys Val Asn Ile  
 305 310  
 Cys Cys Lys Lys Gln Phe Phe Val Ser Phe Lys Asp Ile Gly Trp Asn  
 325  
 Asp Trp Ile Ile Ala Pro Ser Gly Tyr His Ala Asn Tyr Cys Glu Gly  
 340  
 Glu Cys Pro Ser His Ile Ala Gly Thr Ser Gly Ser Ser Leu Ser Phe  
 355  
 His Ser Thr Val Ile Asn His Tyr Arg Met Arg Gly His Ser Pro Phe  
 370  
 Ala Asn Leu Lys Ser Cys Cys Val Pro Thr Lys Leu Arg Pro Met Ser  
 385 390  
 Met Leu Tyr Tyr Asp Asp Gly Gln Asn Ile Ile Lys Lys Asp Ile Gln  
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 Asn Met Ile Val Glu Glu Cys Gly Cys Ser 415  
 420 425

<210> 330  
 <211> 6792  
 <212> PRT  
 <213> Homo sapiens  
 <400> 330

Met Phe Ile Asn Ile Lys Ser Ile Leu Trp Met Cys Ser Thr Leu Ile  
 1 5 10 15  
 Val Thr His Ala Leu His Lys Val Lys Val Gly Lys Ser Pro Pro Val  
 20 25 30  
 Arg Gly Ser Leu Ser Gly Lys Val Ser Leu Pro Cys His Phe Ser Thr  
 35 40 45  
 Met Pro Thr Leu Pro Pro Ser Tyr Asn Thr Ser Glu Phe Leu Arg Ile  
 50 55 60  
 Lys Trp Ser Lys Ile Glu Val Asp Lys Asn Gly Lys Asp Leu Lys Glu  
 65 70 75 80  
 Thr Thr Val Leu Val Ala Gln Asn Gly Asn Ile Lys Ile Gly Gln Asp  
 85 90 95  
 Tyr Lys Gly Arg Val Ser Val Pro Thr His Pro Glu Ala Val Gly Asp  
 100 105 110  
 Ala Ser Leu Thr Val Val Lys Leu Ala Ser Asp Ala Gly Leu Tyr  
 115 120 125  
 Arg Cys Asp Val Met Tyr Gly Ile Glu Asp Thr Gln Asp Thr Val Ser  
 130 135 140  
 Leu Thr Val Asp Gly Val Phe His Tyr Arg Ala Ala Thr Ser Arg  
 145 150 155 160  
 Tyr Thr Leu Asn Phe Glu Ala Ala Gln Lys Ala Cys Leu Asp Val Gly  
 165 170 175  
 Ala Val Ile Ala Thr Pro Glu Gln Leu Phe Ala Ala Tyr Glu Asp Gly  
 180 185 190  
 Phe Glu Gln Cys Asp Ala Gly Trp Leu Ala Asp Gln Thr Val Arg Tyr  
 195 200 205  
 Pro Ile Arg Ala Pro Arg Val Gly Cys Tyr Gly Asp Lys Met Gly Lys  
 210 215 220  
 Ala Gly Val Arg Thr Tyr Gly Phe Arg Ser Pro Gln Glu Thr Tyr Asp  
 225 230 235 240  
 Val Tyr Cys Tyr Val Asp His Leu Asp Gly Asp Val Phe His Leu Thr  
 245 250 255

Val	Pro	Ser	Lys	Phe	Thr	Phe	Glu	Glu	Ala	Ala	Lys	Glu	Cys	Glu	Asn
			260					265					270		
Gln	Asp	Ala	Arg	Leu	Ala	Thr	Val	Gly	Glu	Leu	Gln	Ala	Ala	Trp	Arg
		275					280					285			
Asn	Gly	Phe	Asp	Gln	Cys	Asp	Tyr	Gly	Trp	Leu	Ser	Asp	Ala	Ser	Val
	290					295					300				
Arg	His	Pro	Val	Thr	Val	Ala	Arg	Ala	Gln	Cys	Gly	Gly	Gly	Leu	Leu
305				310						315					320
Gly	Val	Arg	Thr	Leu	Tyr	Arg	Phe	Glu	Asn	Gln	Thr	Gly	Phe	Pro	Pro
				325					330					335	
Pro	Asp	Ser	Arg	Phe	Asp	Ala	Tyr	Cys	Phe	Lys	Pro	Lys	Glu	Ala	Thr
			340					345					350		
Thr	Ile	Asp	Leu	Ser	Ile	Leu	Ala	Glu	Thr	Ala	Ser	Pro	Ser	Leu	Ser
		355					360					365			
Lys	Glu	Pro	Gln	Met	Val	Ser	Asp	Arg	Thr	Thr	Pro	Ile	Ile	Pro	Leu
	370					375					380				
Val	Asp	Glu	Leu	Pro	Val	Ile	Pro	Thr	Glu	Phe	Pro	Pro	Val	Gly	Asn
385					390					395					400
Ile	Val	Ser	Phe	Glu	Gln	Lys	Ala	Thr	Val	Gln	Pro	Gln	Ala	Ile	Thr
			405						410					415	
Asp	Ser	Leu	Ala	Thr	Lys	Leu	Pro	Thr	Pro	Thr	Gly	Ser	Thr	Lys	Lys
		420						425					430		
Pro	Trp	Asp	Met	Asp	Asp	Tyr	Ser	Pro	Ser	Ala	Ser	Gly	Pro	Leu	Gly
		435					440					445			
Lys	Leu	Asp	Ile	Ser	Glu	Ile	Lys	Glu	Glu	Val	Leu	Gln	Ser	Thr	Thr
	450					455					460				
Gly	Val	Ser	His	Tyr	Ala	Thr	Asp	Ser	Trp	Asp	Gly	Val	Val	Glu	Asp
465				470						475					480
Lys	Gln	Thr	Gln	Glu	Ser	Val	Thr	Gln	Ile	Glu	Gln	Ile	Glu	Val	Gly
				485					490					495	
Pro	Leu	Val	Thr	Ser	Met	Glu	Ile	Leu	Lys	His	Ile	Pro	Ser	Lys	Glu
		500						505					510		
Phe	Pro	Val	Thr	Glu	Thr	Pro	Leu	Val	Thr	Ala	Arg	Met	Ile	Leu	Glu
		515					520					525			
Ser	Lys	Thr	Glu	Lys	Lys	Met	Val	Ser	Thr	Val	Ser	Glu	Leu	Val	Thr
	530					535					540				
Thr	Gly	His	Tyr	Gly	Phe	Thr	Leu	Gly	Glu	Glu	Asp	Asp	Glu	Asp	Arg
545				550						555					560
Thr	Leu	Thr	Val	Gly	Ser	Asp	Glu	Ser	Thr	Leu	Ile	Phe	Asp	Gln	Ile
				565					570					575	
Pro	Glu	Val	Ile	Thr	Val	Ser	Lys	Thr	Ser	Glu	Asp	Thr	Ile	His	Thr
		580						585					590		
His	Leu	Glu	Asp	Leu	Glu	Ser	Val	Ser	Ala	Ser	Thr	Thr	Val	Ser	Pro
	595						600					605			
Leu	Ile	Met	Pro	Asp	Asn	Asn	Gly	Ser	Ser	Met	Asp	Asp	Trp	Glu	Glu
	610					615					620				
Arg	Gln	Thr	Ser	Gly	Arg	Ile	Thr	Glu	Glu	Phe	Leu	Gly	Lys	Tyr	Leu
625				630						635					640
Ser	Thr	Thr	Pro	Phe	Pro	Ser	Gln	His	Arg	Thr	Glu	Ile	Glu	Leu	Phe
				645					650					655	
Pro	Tyr	Ser	Gly	Asp	Lys	Ile	Leu	Val	Glu	Gly	Ile	Ser	Thr	Val	Ile
		660					665						670		
Tyr	Pro	Ser	Leu	Gln	Thr	Glu	Met	Thr	His	Arg	Arg	Glu	Arg	Thr	Glu
		675					680					685			
Thr	Leu	Ile	Pro	Glu	Met	Arg	Thr	Asp	Thr	Tyr	Thr	Asp	Glu	Ile	Gln
	690					695					700				
Glu	Glu	Ile	Thr	Lys	Ser	Pro	Phe	Met	Gly	Lys	Thr	Glu	Glu	Glu	Val
705				710						715					720
Phe	Ser	Gly	Met	Lys	Leu	Ser	Thr	Ser	Leu	Ser	Glu	Pro	Ile	His	Val
				725					730					735	
Thr	Glu	Ser	Ser	Val	Glu	Met	Thr	Lys	Ser	Phe	Asp	Phe	Pro	Thr	Leu
		740					745						750		
Ile	Thr	Lys	Leu	Ser	Ala	Glu	Pro	Thr	Glu	Val	Arg	Asp	Met	Glu	Glu
		755					760					765			
Asp	Phe	Thr	Ala	Thr	Pro	Gly	Thr	Thr	Lys	Tyr	Asp	Glu	Asn	Ile	Thr
	770					775					780				
Thr	Val	Leu	Leu	Ala	His	Gly	Thr	Leu	Ser	Val	Glu	Ala	Ala	Thr	Val
785					790					795					800
Ser	Lys	Trp	Ser	Trp	Asp	Glu	Asp	Asn	Thr	Thr	Ser	Lys	Pro	Leu	Glu

				805					810				815	
Ser	Thr	Glu	Pro	Ser	Ala	Ser	Ser	Lys	Leu	Pro	Pro	Ala	Leu	Thr
			820					825					830	
Thr	Val	Gly	Met	Asn	Gly	Lys	Asp	Lys	Asp	Ile	Pro	Ser	Phe	Thr
		835					840					845		Glu
Asp	Gly	Ala	Asp	Glu	Phe	Thr	Leu	Ile	Pro	Asp	Ser	Thr	Gln	Lys
	850					855					860			Gln
Leu	Glu	Glu	Val	Thr	Asp	Glu	Asp	Ile	Ala	Ala	His	Gly	Lys	Phe
	865				870					875				Thr
Ile	Arg	Phe	Gln	Pro	Thr	Thr	Ser	Thr	Gly	Ile	Ala	Glu	Lys	Ser
			885						890					Thr
Leu	Arg	Asp	Ser	Thr	Thr	Glu	Glu	Lys	Val	Pro	Pro	Ile	Thr	Ser
			900					905						Thr
Glu	Gly	Gln	Val	Tyr	Ala	Thr	Met	Glu	Gly	Ser	Ala	Leu	Gly	Glu
	915						920					925		Val
Glu	Asp	Val	Asp	Leu	Ser	Lys	Pro	Val	Ser	Thr	Val	Pro	Gln	Phe
	930					935						940		Ala
His	Thr	Ser	Glu	Val	Glu	Gly	Leu	Ala	Phe	Val	Ser	Tyr	Ser	Ser
	945				950					955				Thr
Gln	Glu	Pro	Thr	Thr	Tyr	Val	Asp	Ser	Ser	His	Thr	Ile	Pro	Leu
			965						970					Ser
Val	Ile	Pro	Lys	Thr	Asp	Trp	Gly	Val	Leu	Val	Pro	Ser	Val	Pro
			980					985						Ser
Glu	Asp	Glu	Val	Leu	Gly	Glu	Pro	Ser	Gln	Asp	Ile	Leu	Val	Ile
	995						1000							Asp
Gln	Thr	Arg	Leu	Glu	Ala	Thr	Ile	Ser	Pro	Glu	Thr	Met	Arg	Thr
	1010					1015						1020		
Thr	Lys	Ile	Thr	Glu	Gly	Thr	Thr	Gln	Glu	Glu	Phe	Pro	Trp	Lys
	1025					1030						1035		
Glu	Gln	Thr	Ala	Glu	Lys	Pro	Val	Pro	Ala	Leu	Ser	Ser	Thr	Ala
	1040					1045						1050		
Trp	Thr	Pro	Lys	Glu	Ala	Val	Thr	Pro	Leu	Asp	Glu	Gln	Glu	Gly
	1055					1060						1065		
Asp	Gly	Ser	Ala	Tyr	Thr	Val	Ser	Glu	Asp	Glu	Leu	Leu	Thr	Gly
	1070					1075						1080		
Ser	Glu	Arg	Val	Pro	Val	Leu	Glu	Thr	Thr	Pro	Val	Gly	Lys	Ile
	1085					1090						1095		
Asp	His	Ser	Val	Ser	Tyr	Pro	Pro	Gly	Ala	Val	Thr	Glu	His	Lys
	1100					1105						1110		
Val	Lys	Thr	Asp	Glu	Val	Val	Thr	Leu	Thr	Pro	Arg	Ile	Gly	Pro
	1115					1120						1125		
Lys	Val	Ser	Leu	Ser	Pro	Gly	Pro	Glu	Gln	Lys	Tyr	Glu	Thr	Glu
	1130					1135						1140		
Gly	Ser	Ser	Thr	Thr	Gly	Phe	Thr	Ser	Ser	Leu	Ser	Pro	Phe	Ser
	1145					1150						1155		
Thr	His	Ile	Thr	Gln	Leu	Met	Glu	Glu	Thr	Thr	Thr	Glu	Lys	Thr
	1160					1165						1170		
Ser	Leu	Glu	Asp	Ile	Asp	Leu	Gly	Ser	Gly	Leu	Phe	Glu	Lys	Pro
	1175					1180						1185		
Lys	Ala	Thr	Glu	Leu	Ile	Glu	Phe	Ser	Thr	Ile	Lys	Val	Thr	Val
	1190					1195						1200		
Pro	Ser	Asp	Ile	Thr	Thr	Ala	Phe	Ser	Ser	Val	Asp	Arg	Leu	His
	1205					1210						1215		
Thr	Thr	Ser	Ala	Phe	Lys	Pro	Ser	Ser	Ala	Ile	Thr	Lys	Lys	Pro
	1220					1225						1230		
Pro	Leu	Ile	Asp	Arg	Glu	Pro	Gly	Glu	Glu	Thr	Thr	Ser	Asp	Met
	1235					1240						1245		
Val	Ile	Ile	Gly	Glu	Ser	Thr	Ser	His	Val	Pro	Pro	Thr	Thr	Leu
	1250					1255						1260		
Glu	Asp	Ile	Val	Ala	Lys	Glu	Thr	Glu	Thr	Asp	Ile	Asp	Arg	Glu
	1265					1270						1275		
Tyr	Phe	Thr	Thr	Ser	Ser	Pro	Pro	Ala	Thr	Gln	Pro	Thr	Arg	Pro
	1280					1285						1290		
Pro	Thr	Val	Glu	Asp	Lys	Glu	Ala	Phe	Gly	Pro	Gln	Ala	Leu	Ser
	1295					1300						1305		
Thr	Pro	Gln	Pro	Pro	Ala	Ser	Thr	Lys	Phe	His	Pro	Asp	Ile	Asn
	1310					1315						1320		
Val	Tyr	Ile	Ile	Glu	Val	Arg	Glu	Asn	Lys	Thr	Gly	Arg	Met	Ser
	1325					1330						1335		

Asp	Leu	Ser	Val	Ile	Gly	His	Pro	Ile	Asp	Ser	Glu	Ser	Lys	Glu
1340						1345					1350			
Asp	Glu	Pro	Cys	Ser	Glu	Glu	Thr	Asp	Pro	Val	His	Asp	Leu	Met
1355						1360					1365			
Ala	Glu	Ile	Leu	Pro	Glu	Phe	Pro	Asp	Ile	Ile	Glu	Ile	Asp	Leu
1370						1375					1380			
Tyr	His	Ser	Glu	Glu	Asn	Glu	Glu	Glu	Glu	Glu	Glu	Cys	Ala	Asn
1385						1390					1395			
Ala	Thr	Asp	Val	Thr	Thr	Thr	Pro	Ser	Val	Gln	Tyr	Ile	Asn	Gly
1400						1405					1410			
Lys	His	Leu	Val	Thr	Thr	Val	Pro	Lys	Asp	Pro	Glu	Ala	Ala	Glu
1415						1420					1425			
Ala	Arg	Arg	Gly	Gln	Phe	Glu	Ser	Val	Ala	Pro	Ser	Gln	Asn	Phe
1430						1435					1440			
Ser	Asp	Ser	Ser	Glu	Ser	Asp	Thr	His	Pro	Phe	Val	Ile	Ala	Lys
1445						1450					1455			
Thr	Glu	Leu	Ser	Thr	Ala	Val	Gln	Pro	Asn	Glu	Ser	Thr	Glu	Thr
1460						1465					1470			
Thr	Glu	Ser	Leu	Glu	Val	Thr	Trp	Lys	Pro	Glu	Thr	Tyr	Pro	Glu
1475						1480					1485			
Thr	Ser	Glu	His	Phe	Ser	Gly	Gly	Glu	Pro	Asp	Val	Phe	Pro	Thr
1490						1495					1500			
Val	Pro	Phe	His	Glu	Glu	Phe	Glu	Ser	Gly	Thr	Ala	Lys	Lys	Gly
1505						1510					1515			
Ala	Glu	Ser	Val	Thr	Glu	Arg	Asp	Thr	Glu	Val	Gly	His	Gln	Ala
1520						1525					1530			
His	Glu	His	Thr	Glu	Pro	Val	Ser	Leu	Phe	Pro	Glu	Glu	Ser	Ser
1535						1540					1545			
Gly	Glu	Ile	Ala	Ile	Asp	Gln	Glu	Ser	Gln	Lys	Ile	Ala	Phe	Ala
1550						1555					1560			
Arg	Ala	Thr	Glu	Val	Thr	Phe	Gly	Glu	Glu	Val	Glu	Lys	Ser	Thr
1565						1570					1575			
Ser	Val	Thr	Tyr	Thr	Pro	Thr	Ile	Val	Pro	Ser	Ser	Ala	Ser	Ala
1580						1585					1590			
Tyr	Val	Ser	Glu	Glu	Glu	Ala	Val	Thr	Leu	Ile	Gly	Asn	Pro	Trp
1595						1600					1605			
Pro	Asp	Asp	Leu	Leu	Ser	Thr	Lys	Glu	Ser	Trp	Val	Glu	Ala	Thr
1610						1615					1620			
Pro	Arg	Gln	Val	Val	Glu	Leu	Ser	Gly	Ser	Ser	Ser	Ile	Pro	Ile
1625						1630					1635			
Thr	Glu	Gly	Ser	Gly	Glu	Ala	Glu	Glu	Asp	Glu	Asp	Thr	Met	Phe
1640						1645					1650			
Thr	Met	Val	Thr	Asp	Leu	Ser	Gln	Arg	Asn	Thr	Thr	Asp	Thr	Leu
1655						1660					1665			
Ile	Thr	Leu	Asp	Thr	Ser	Arg	Ile	Ile	Thr	Glu	Ser	Phe	Phe	Glu
1670						1675					1680			
Val	Pro	Ala	Thr	Thr	Ile	Tyr	Pro	Val	Ser	Glu	Gln	Pro	Ser	Ala
1685						1690					1695			
Lys	Val	Val	Pro	Thr	Lys	Phe	Val	Ser	Glu	Thr	Asp	Thr	Ser	Glu
1700						1705					1710			
Trp	Ile	Ser	Ser	Thr	Thr	Val	Glu	Glu	Lys	Lys	Arg	Lys	Glu	Glu
1715						1720					1725			
Glu	Gly	Thr	Thr	Gly	Thr	Ala	Ser	Thr	Phe	Glu	Val	Tyr	Ser	Ser
1730						1735					1740			
Thr	Gln	Arg	Ser	Asp	Gln	Leu	Ile	Leu	Pro	Phe	Glu	Leu	Glu	Ser
1745						1750					1755			
Pro	Asn	Val	Ala	Thr	Ser	Ser	Asp	Ser	Gly	Thr	Arg	Lys	Ser	Phe
1760						1765					1770			
Met	Ser	Leu	Thr	Thr	Pro	Thr	Gln	Ser	Glu	Arg	Glu	Met	Thr	Asp
1775						1780					1785			
Ser	Thr	Pro	Val	Phe	Thr	Glu	Thr	Asn	Thr	Leu	Glu	Asn	Leu	Gly
1790						1795					1800			
Ala	Gln	Thr	Thr	Glu	His	Ser	Ser	Ile	His	Gln	Pro	Gly	Val	Gln
1805						1810					1815			
Glu	Gly	Leu	Thr	Thr	Leu	Pro	Arg	Ser	Pro	Ala	Ser	Val	Phe	Met
1820						1825					1830			
Glu	Gln	Gly	Ser	Gly	Glu	Ala	Ala	Ala	Asp	Pro	Glu	Thr	Thr	Thr
1835						1840					1845			
Val	Ser	Ser	Phe	Ser	Leu	Asn	Val	Glu	Tyr	Ala	Ile	Gln	Ala	Glu

1850	Lys Glu Val Ala Gly Thr	1855	Leu Ser Pro His Val	1860	Glu Thr Thr Phe
1865	Ser Thr Glu Pro Thr Gly	1870	Leu Val Leu Ser Thr	1875	Val Met Asp Arg
1880	Val Val Ala Glu Asn Ile	1885	Gln Thr Ser Arg	1890	Glu Ile Val Ile
1895	Ser Glu Arg Leu Gly Glu	1900	Pro Asn Tyr Gly Ala	1905	Glu Ile Arg Gly
1910	Phe Ser Thr Gly Phe Pro	1915	Leu Glu Glu Asp Phe	1920	Ser Gly Asp Phe
1925	Arg Glu Tyr Ser Thr Val	1930	Ser His Pro Ile Ala	1935	Lys Glu Glu Thr
1940	Val Met Met Glu Gly Ser	1945	Gly Asp Ala Ala Phe	1950	Arg Asp Thr Gln
1955	Thr Ser Pro Ser Thr Val	1960	Pro Thr Ser Val His	1965	Ile Ser His Ile
1970	Ser Asp Ser Glu Gly Pro	1975	Ser Ser Thr Met Val	1980	Ser Thr Ser Ala
1985	Phe Pro Trp Glu Glu Phe	1990	Thr Ser Ser Ala Glu	1995	Gly Ser Gly Glu
2000	Gln Leu Val Thr Val Ser	2005	Ser Ser Val Val Pro	2010	Val Leu Pro Ser
2015	Ala Val Gln Lys Phe Ser	2020	Gly Thr Ala Ser Ser	2025	Ile Ile Asp Glu
2030	Gly Leu Gly Glu Val Gly	2035	Thr Val Asn Glu Ile	2040	Asp Arg Arg Ser
2045	Thr Ile Leu Pro Thr Ala	2050	Glu Val Glu Gly Thr	2055	Lys Ala Pro Val
2060	Glu Lys Glu Glu Val Lys	2065	Val Ser Gly Thr Val	2070	Ser Thr Asn Phe
2075	Pro Gln Thr Ile Glu Pro	2080	Ala Lys Leu Trp Ser	2085	Arg Gln Glu Val
2090	Asn Pro Val Arg Gln Glu	2095	Ile Glu Ser Glu Thr	2100	Thr Ser Glu Glu
2105	Gln Ile Gln Glu Glu Lys	2110	Ser Phe Glu Ser Pro	2115	Gln Asn Ser Pro
2120	Ala Thr Glu Gln Thr Ile	2125	Phe Asp Ser Gln Thr	2130	Phe Thr Glu Thr
2135	Glu Leu Lys Thr Thr Asp	2140	Tyr Ser Val Leu Thr	2145	Thr Lys Lys Thr
2150	Tyr Ser Asp Asp Lys Glu	2155	Met Lys Glu Glu Asp	2160	Thr Ser Leu Val
2165	Asn Met Ser Thr Pro Asp	2170	Pro Asp Ala Asn Gly	2175	Leu Glu Ser Tyr
2180	Thr Thr Leu Pro Glu Ala	2185	Thr Glu Lys Ser His	2190	Phe Phe Leu Ala
2195	Thr Ala Leu Val Thr Glu	2200	Ser Ile Pro Ala Glu	2205	His Val Val Thr
2210	Asp Ser Pro Ile Lys Lys	2215	Glu Glu Ser Thr Lys	2220	His Phe Pro Lys
2225	Gly Met Arg Pro Thr Ile	2230	Gln Glu Ser Asp Thr	2235	Glu Leu Leu Phe
2240	Ser Gly Leu Gly Ser Gly	2245	Glu Glu Val Leu Pro	2250	Thr Leu Pro Thr
2255	Glu Ser Val Asn Phe Thr	2260	Glu Val Glu Gln Ile	2265	Asn Asn Thr Leu
2270	Tyr Pro His Thr Ser Gln	2275	Val Glu Ser Thr Ser	2280	Ser Asp Lys Ile
2285	Glu Asp Phe Asn Arg Met	2290	Glu Asn Val Ala Lys	2295	Glu Val Gly Pro
2300	Leu Val Ser Gln Thr Asp	2305	Ile Phe Glu Gly Ser	2310	Gly Ser Val Thr
2315	Ser Thr Thr Leu Ile Glu	2320	Ile Leu Ser Asp Thr	2325	Gly Ala Glu Gly
2330	Pro Thr Val Ala Pro Leu	2335	Pro Phe Ser Thr Asp	2340	Ile Gly His Pro
2345	Gln Asn Gln Thr Val Arg	2350	Trp Ala Glu Glu Ile	2355	Gln Thr Ser Arg
2360		2365		2370	

Pro	Gln	Thr	Ile	Thr	Glu	Gln	Asp	Ser	Asn	Lys	Asn	Ser	Ser	Thr
	2375					2380					2385			
Ala	Glu	Ile	Asn	Glu	Thr	Thr	Thr	Ser	Ser	Thr	Asp	Phe	Leu	Ala
	2390					2395					2400			
Arg	Ala	Tyr	Gly	Phe	Glu	Met	Ala	Lys	Glu	Phe	Val	Thr	Ser	Ala
	2405					2410					2415			
Pro	Lys	Pro	Ser	Asp	Leu	Tyr	Tyr	Glu	Pro	Ser	Gly	Glu	Gly	Ser
	2420					2425					2430			
Gly	Glu	Val	Asp	Ile	Val	Asp	Ser	Phe	His	Thr	Ser	Ala	Thr	Thr
	2435					2440					2445			
Gln	Ala	Thr	Arg	Gln	Glu	Ser	Ser	Thr	Thr	Phe	Val	Ser	Asp	Gly
	2450					2455					2460			
Ser	Leu	Glu	Lys	His	Pro	Glu	Val	Pro	Ser	Ala	Lys	Ala	Val	Thr
	2465					2470					2475			
Ala	Asp	Gly	Phe	Pro	Thr	Val	Ser	Val	Met	Leu	Pro	Leu	His	Ser
	2480					2485					2490			
Glu	Gln	Asn	Lys	Ser	Ser	Pro	Asp	Pro	Thr	Ser	Thr	Leu	Ser	Asn
	2495					2500					2505			
Thr	Val	Ser	Tyr	Glu	Arg	Ser	Thr	Asp	Gly	Ser	Phe	Gln	Asp	Arg
	2510					2515					2520			
Phe	Arg	Glu	Phe	Glu	Asp	Ser	Thr	Leu	Lys	Pro	Asn	Arg	Lys	Lys
	2525					2530					2535			
Pro	Thr	Glu	Asn	Ile	Ile	Ile	Asp	Leu	Asp	Lys	Glu	Asp	Lys	Asp
	2540					2545					2550			
Leu	Ile	Leu	Thr	Ile	Thr	Glu	Ser	Thr	Ile	Leu	Glu	Ile	Leu	Pro
	2555					2560					2565			
Glu	Leu	Thr	Ser	Asp	Lys	Asn	Thr	Ile	Ile	Asp	Ile	Asp	His	Thr
	2570					2575					2580			
Lys	Pro	Val	Tyr	Glu	Asp	Ile	Leu	Gly	Met	Gln	Thr	Asp	Ile	Asp
	2585					2590					2595			
Thr	Glu	Val	Pro	Ser	Glu	Pro	His	Asp	Ser	Asn	Asp	Glu	Ser	Asn
	2600					2605					2610			
Asp	Asp	Ser	Thr	Gln	Val	Gln	Glu	Ile	Tyr	Glu	Ala	Ala	Val	Asn
	2615					2620					2625			
Leu	Ser	Leu	Thr	Glu	Glu	Thr	Phe	Glu	Gly	Ser	Ala	Asp	Val	Leu
	2630					2635					2640			
Ala	Ser	Tyr	Thr	Gln	Ala	Thr	His	Asp	Glu	Ser	Met	Thr	Tyr	Glu
	2645					2650					2655			
Asp	Arg	Ser	Gln	Leu	Asp	His	Met	Gly	Phe	His	Phe	Thr	Thr	Gly
	2660					2665					2670			
Ile	Pro	Ala	Pro	Ser	Thr	Glu	Thr	Glu	Leu	Asp	Val	Leu	Leu	Pro
	2675					2680					2685			
Thr	Ala	Thr	Ser	Leu	Pro	Ile	Pro	Arg	Lys	Ser	Ala	Thr	Val	Ile
	2690					2695					2700			
Pro	Glu	Ile	Glu	Gly	Ile	Lys	Ala	Glu	Ala	Lys	Ala	Leu	Asp	Asp
	2705					2710					2715			
Met	Phe	Glu	Ser	Ser	Thr	Leu	Ser	Asp	Gly	Gln	Ala	Ile	Ala	Asp
	2720					2725					2730			
Gln	Ser	Glu	Ile	Ile	Pro	Thr	Leu	Gly	Gln	Phe	Glu	Arg	Thr	Gln
	2735					2740					2745			
Glu	Glu	Tyr	Glu	Asp	Lys	Lys	His	Ala	Gly	Pro	Ser	Phe	Gln	Pro
	2750					2755					2760			
Glu	Phe	Ser	Ser	Gly	Ala	Glu	Glu	Ala	Leu	Val	Asp	His	Thr	Pro
	2765					2770					2775			
Tyr	Leu	Ser	Ile	Ala	Thr	Thr	His	Leu	Met	Asp	Gln	Ser	Val	Thr
	2780					2785					2790			
Glu	Val	Pro	Asp	Val	Met	Glu	Gly	Ser	Asn	Pro	Pro	Tyr	Tyr	Thr
	2795					2800					2805			
Asp	Thr	Thr	Leu	Ala	Val	Ser	Thr	Phe	Ala	Lys	Leu	Ser	Ser	Gln
	2810					2815					2820			
Thr	Pro	Ser	Ser	Pro	Leu	Thr	Ile	Tyr	Ser	Gly	Ser	Glu	Ala	Ser
	2825					2830					2835			
Gly	His	Thr	Glu	Ile	Pro	Gln	Pro	Ser	Ala	Leu	Pro	Gly	Ile	Asp
	2840					2845					2850			
Val	Gly	Ser	Ser	Val	Met	Ser	Pro	Gln	Asp	Ser	Phe	Lys	Glu	Ile
	2855					2860					2865			
His	Val	Asn	Ile	Glu	Ala	Thr	Phe	Lys	Pro	Ser	Ser	Glu	Glu	Tyr
	2870					2875					2880			
Leu	His	Ile	Thr	Glu	Pro	Pro	Ser	Leu	Ser	Pro	Asp	Thr	Lys	Leu

2885	Glu Pro Ser Glu Asp Asp	2890	Gly Lys Pro Glu Leu	2895	Leu Glu Glu Met
2900	Glu Ala Ser Pro Thr Glu	2905	Ile Ala Val Glu	2910	Gly Thr Glu Ile
2915	Leu Gln Asp Phe Gln Asn	2920	Thr Asp Gly Gln	2925	Val Ser Gly Glu
2930	Ala Ile Lys Met Phe Pro	2935	Ile Lys Thr Pro	2940	Glu Ala Gly Thr
2945	Val Ile Thr Thr Ala Asp	2950	Ile Glu Leu Glu	2955	Gly Ala Thr Gln
2960	Trp Pro His Ser Thr Ser	2965	Ser Ala Thr Tyr	2970	Gly Val Glu Ala
2975	Gly Val Val Pro Trp Leu	2980	Pro Gln Thr Ser	2985	Glu Arg Pro Thr
2990	Leu Ser Ser Ser Pro Glu	2995	Ile Asn Pro Glu Thr	3000	Gln Ala Ala Leu
3005	Ile Arg Gly Gln Asp Ser	3010	Ile Ala Ala Ser	3015	Glu Gln Gln Val
3020	Ala Ala Arg Ile Leu Asp	3025	Ser Asn Asp Gln Ala	3030	Thr Val Asn Pro
3035	Val Glu Phe Asn Thr Glu	3040	Ala Thr Pro Pro	3045	Phe Ser Leu Leu
3050	Glu Thr Ser Asn Glu Thr	3055	Phe Leu Ile Gly	3060	Ile Asn Glu Glu
3065	Ser Val Glu Gly Thr Ala	3070	Tyr Leu Pro Gly	3075	Pro Asp Arg Cys
3080	Lys Met Asn Pro Cys Leu	3085	Gly Gly Thr Cys	3090	Tyr Pro Thr Glu
3095	Thr Ser Tyr Val Cys Thr	3100	Val Pro Gly Tyr	3105	Ser Gly Asp Gln
3110	Cys Glu Leu Asp Phe Asp	3115	Cys His Ser Asn	3120	Pro Cys Arg Asn
3125	Gly Ala Thr Cys Val Asp	3130	Phe Asn Thr Phe	3135	Arg Cys Leu Cys
3140	Leu Pro Ser Tyr Val Gly	3145	Leu Cys Glu Gln	3150	Asp Thr Glu Thr
3155	Cys Asp Tyr Gly Trp His	3160	Phe Gln Gly Gln	3165	Cys Tyr Lys Tyr
3170	Phe Ala His Arg Arg Thr	3175	Asp Ala Ala Glu	3180	Arg Glu Cys Arg
3185	Leu Gln Gly Ala His Leu	3190	Ser Ile Leu Ser	3195	His Glu Glu Gln
3200	Met Phe Val Asn Arg Val	3205	His Asp Tyr Gln	3210	Trp Ile Gly Leu
3215	Asn Asp Lys Met Phe Glu	3220	Asp Phe Arg Trp	3225	Thr Asp Gly Ser
3230	Thr Leu Gln Tyr Glu Asn	3235	Arg Pro Asn Gln	3240	Pro Asp Ser Phe
3245	Phe Ser Ala Gly Glu Asp	3250	Val Val Ile Ile	3255	Trp His Glu Asn
3260	Gly Gln Trp Asn Asp Val	3265	Cys Asn Tyr His	3270	Leu Thr Tyr Thr
3275	Cys Lys Lys Gly Thr Val	3280	Cys Gly Gln Pro	3285	Pro Val Val Glu
3290	Asn Ala Lys Thr Phe Gly	3295	Met Lys Pro Arg	3300	Tyr Glu Ile Asn
3305	Ser Leu Ile Arg Tyr His	3310	Lys Asp Gly Phe	3315	Ile Gln Arg His
3320	Leu Pro Thr Ile Arg Cys	3325	Gly Asn Gly Arg	3330	Trp Ala Ile Pro
3335	Lys Ile Thr Cys Met Asn	3340	Ser Ala Tyr Gln	3345	Arg Thr Tyr Ser
3350	Met Lys Tyr Phe Lys Asn	3355	Ser Ser Ala Lys	3360	Asp Asn Ser Ile
3365	Asn Thr Ser Lys His Asp	3370	Arg Trp Ser Arg	3375	Trp Trp Gln Glu
3380	Ser Arg Arg Met Phe Ile	3385	Ile Lys Ser Ile	3390	Leu Trp Met Cys
3395		3400		3405	



Ser	Thr	Leu	Ile	Val	Thr	His	Ala	Leu	His	Lys	Val	Lys	Val	Gly
3410						3415					3420			
Lys	Ser	Pro	Pro	Val	Arg	Gly	Ser	Leu	Ser	Gly	Lys	Val	Ser	Leu
3425						3430					3435			
Pro	Cys	His	Phe	Ser	Thr	Met	Pro	Thr	Leu	Pro	Pro	Ser	Tyr	Asn
3440						3445					3450			
Thr	Ser	Glu	Phe	Leu	Arg	Ile	Lys	Trp	Ser	Lys	Ile	Glu	Val	Asp
3455						3460					3465			
Lys	Asn	Gly	Lys	Asp	Leu	Lys	Glu	Thr	Thr	Val	Leu	Val	Ala	Gln
3470						3475					3480			
Asn	Gly	Asn	Ile	Lys	Ile	Gly	Gln	Asp	Tyr	Lys	Gly	Arg	Val	Ser
3485						3490					3495			
Val	Pro	Thr	His	Pro	Glu	Ala	Val	Gly	Asp	Ala	Ser	Leu	Thr	Val
3500						3505					3510			
Val	Lys	Leu	Leu	Ala	Ser	Asp	Ala	Gly	Leu	Tyr	Arg	Cys	Asp	Val
3515						3520					3525			
Met	Tyr	Gly	Ile	Glu	Asp	Thr	Gln	Asp	Thr	Val	Ser	Leu	Thr	Val
3530						3535					3540			
Asp	Gly	Val	Val	Phe	His	Tyr	Arg	Ala	Ala	Thr	Ser	Arg	Tyr	Thr
3545						3550					3555			
Leu	Asn	Phe	Glu	Ala	Ala	Gln	Lys	Ala	Cys	Leu	Asp	Val	Gly	Ala
3560						3565					3570			
Val	Ile	Ala	Thr	Pro	Glu	Gln	Leu	Phe	Ala	Ala	Tyr	Glu	Asp	Gly
3575						3580					3585			
Phe	Glu	Gln	Cys	Asp	Ala	Gly	Trp	Leu	Ala	Asp	Gln	Thr	Val	Arg
3590						3595					3600			
Tyr	Pro	Ile	Arg	Ala	Pro	Arg	Val	Gly	Cys	Tyr	Gly	Asp	Lys	Met
3605						3610					3615			
Gly	Lys	Ala	Gly	Val	Arg	Thr	Tyr	Gly	Phe	Arg	Ser	Pro	Gln	Glu
3620						3625					3630			
Thr	Tyr	Asp	Val	Tyr	Cys	Tyr	Val	Asp	His	Leu	Asp	Gly	Asp	Val
3635						3640					3645			
Phe	His	Leu	Thr	Val	Pro	Ser	Lys	Phe	Thr	Phe	Glu	Glu	Ala	Ala
3650						3655					3660			
Lys	Glu	Cys	Glu	Asn	Gln	Asp	Ala	Arg	Leu	Ala	Thr	Val	Gly	Glu
3665						3670					3675			
Leu	Gln	Ala	Ala	Trp	Arg	Asn	Gly	Phe	Asp	Gln	Cys	Asp	Tyr	Gly
3680						3685					3690			
Trp	Leu	Ser	Asp	Ala	Ser	Val	Arg	His	Pro	Val	Thr	Val	Ala	Arg
3695						3700					3705			
Ala	Gln	Cys	Gly	Gly	Gly	Leu	Leu	Gly	Val	Arg	Thr	Leu	Tyr	Arg
3710						3715					3720			
Phe	Glu	Asn	Gln	Thr	Gly	Phe	Pro	Pro	Pro	Asp	Ser	Arg	Phe	Asp
3725						3730					3735			
Ala	Tyr	Cys	Phe	Lys	Pro	Lys	Glu	Ala	Thr	Thr	Ile	Asp	Leu	Ser
3740						3745					3750			
Ile	Leu	Ala	Glu	Thr	Ala	Ser	Pro	Ser	Leu	Ser	Lys	Glu	Pro	Gln
3755						3760					3765			
Met	Val	Ser	Asp	Arg	Thr	Thr	Pro	Ile	Ile	Pro	Leu	Val	Asp	Glu
3770						3775					3780			
Leu	Pro	Val	Ile	Pro	Thr	Glu	Phe	Pro	Pro	Val	Gly	Asn	Ile	Val
3785						3790					3795			
Ser	Phe	Glu	Gln	Lys	Ala	Thr	Val	Gln	Pro	Gln	Ala	Ile	Thr	Asp
3800						3805					3810			
Ser	Leu	Ala	Thr	Lys	Leu	Pro	Thr	Pro	Thr	Gly	Ser	Thr	Lys	Lys
3815						3820					3825			
Pro	Trp	Asp	Met	Asp	Asp	Tyr	Ser	Pro	Ser	Ala	Ser	Gly	Pro	Leu
3830						3835					3840			
Gly	Lys	Leu	Asp	Ile	Ser	Glu	Ile	Lys	Glu	Glu	Val	Leu	Gln	Ser
3845						3850					3855			
Thr	Thr	Gly	Val	Ser	His	Tyr	Ala	Thr	Asp	Ser	Trp	Asp	Gly	Val
3860						3865					3870			
Val	Glu	Asp	Lys	Gln	Thr	Gln	Glu	Ser	Val	Thr	Gln	Ile	Glu	Gln
3875						3880					3885			
Ile	Glu	Val	Gly	Pro	Leu	Val	Thr	Ser	Met	Glu	Ile	Leu	Lys	His
3890						3895					3900			
Ile	Pro	Ser	Lys	Glu	Phe	Pro	Val	Thr	Glu	Thr	Pro	Leu	Val	Thr
3905						3910					3915			
Ala	Arg	Met	Ile	Leu	Glu	Ser	Lys	Thr	Glu	Lys	Lys	Met	Val	Ser

3920	Thr Val Ser Glu Leu Val	3925	Thr Thr Gly His Tyr	3930	Gly Phe Thr Leu
3935	Gly Glu Glu Asp Asp Glu	3940	Asp Arg Thr Leu Thr	3945	Val Gly Ser Asp
3950	Glu Ser Thr Leu Ile Phe	3955	Asp Gln Ile Pro Glu	3960	Val Ile Thr Val
3965	Ser Lys Thr Ser Glu Asp	3970	Thr Ile His Thr His	3975	Leu Glu Asp Leu
3980	Glu Ser Val Ser Ala Ser	3985	Thr Thr Val Ser Pro	3990	Leu Ile Met Pro
3995	Asp Asn Asn Gly Ser Ser	4000	Met Asp Asp Trp Glu	4005	Glu Arg Gln Thr
4010	Ser Gly Arg Ile Thr Glu	4015	Glu Phe Leu Gly Lys	4020	Tyr Leu Ser Thr
4025	Thr Pro Phe Pro Ser Gln	4030	His Arg Thr Glu Ile	4035	Glu Leu Phe Pro
4040	Tyr Ser Gly Asp Lys Ile	4045	Leu Val Glu Gly Ile	4050	Ser Thr Val Ile
4055	Tyr Pro Ser Leu Gln Thr	4060	Glu Met Thr His Arg	4065	Arg Glu Arg Thr
4070	Glu Thr Leu Ile Pro Glu	4075	Met Arg Thr Asp Thr	4080	Tyr Thr Asp Glu
4085	Ile Gln Glu Glu Ile Thr	4090	Lys Ser Pro Phe Met	4095	Gly Lys Thr Glu
4100	Glu Glu Val Phe Ser Gly	4105	Met Lys Leu Ser Thr	4110	Ser Leu Ser Glu
4115	Pro Ile His Val Thr Glu	4120	Ser Ser Val Glu Met	4125	Thr Lys Ser Phe
4130	Asp Phe Pro Thr Leu Ile	4135	Thr Lys Leu Ser Ala	4140	Glu Pro Thr Glu
4145	Val Arg Asp Met Glu Glu	4150	Asp Phe Thr Ala Thr	4155	Pro Gly Thr Thr
4160	Lys Tyr Asp Glu Asn Ile	4165	Thr Thr Val Leu Leu	4170	Ala His Gly Thr
4175	Leu Ser Val Glu Ala Ala	4180	Thr Val Ser Lys Trp	4185	Ser Trp Asp Glu
4190	Asp Asn Thr Thr Ser Lys	4195	Pro Leu Glu Ser Thr	4200	Glu Pro Ser Ala
4205	Ser Ser Lys Leu Pro Pro	4210	Ala Leu Leu Thr Thr	4215	Val Gly Met Asn
4220	Gly Lys Asp Lys Asp Ile	4225	Pro Ser Phe Thr Glu	4230	Asp Gly Ala Asp
4235	Glu Phe Thr Leu Ile Pro	4240	Asp Ser Thr Gln Lys	4245	Gln Leu Glu Glu
4250	Val Thr Asp Glu Asp Ile	4255	Ala Ala His Gly Lys	4260	Phe Thr Ile Arg
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&lt;211&gt; 2790

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 475

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&lt;211&gt; 3119

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

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&lt;213&gt; Homo sapiens

&lt;400&gt; 477

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&lt;213&gt; Homo sapiens

&lt;400&gt; 478

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&lt;211&gt; 1712

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

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&lt;210&gt; 480

&lt;211&gt; 2175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

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&lt;210&gt; 481

&lt;211&gt; 1805

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 481

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&lt;211&gt; 895

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 482

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&lt;211&gt; 9432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 483

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&lt;213&gt; Homo sapiens

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&lt;210&gt; 490

&lt;211&gt; 3197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 490

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&lt;210&gt; 491

&lt;211&gt; 1646

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 491

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&lt;210&gt; 492

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 492

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Met Met Gln Lys Leu Lys Cys Ser Arg Leu Val Leu Ala Leu Ala
1      5      10      15
Leu Ile Leu Val Leu Glu Ser Ser Val Gln Gly Tyr Pro Thr Arg Arg
20     25     30
Ala Arg Tyr Gln Trp Val Arg Cys Asn Pro Asp Ser Asn Ser Ala Asn
35     40     45
Cys Leu Glu Glu Lys Gly Pro Met Phe Glu Leu Leu Pro Gly Glu Ser
50     55     60
Asn Lys Ile Pro Arg Leu Arg Thr Asp Leu Phe Pro Lys Thr Arg Ile
65     70     75     80
Gln Asp Leu Asn Arg Ile Phe Pro Leu Ser Glu Asp Tyr Ser Gly Ser
85     90     95
Gly Phe Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Phe
100    105    110
Leu Thr Glu Met Glu Gln Asp Tyr Gln Leu Val Asp Glu Ser Asp Ala
115    120    125
Phe His Asp Asn Leu Arg Ser Leu Asp Arg Asn Leu Pro Ser Asp Ser
130    135    140
Gln Asp Leu Gly Gln His Gly Leu Glu Glu Asp Phe Met Leu
145    150    155

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&lt;210&gt; 493

&lt;211&gt; 592

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 493

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Met Ala Ser Glu Ile His Met Thr Gly Pro Met Cys Leu Ile Glu Asn
1      5      10      15
Thr Asn Gly Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser
20     25     30
Ala Ile Thr Gln Pro Met Val Val Val Ala Ile Val Gly Leu Tyr Arg

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- 440 -

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<210> 494
<211> 632
<212> PRT
<213> Homo sapiens
<400> 494
Met Ser Arg Val Arg Asp Ala Gly Cys Val Ala Ala Gly Ile Val Ile
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20      25      30
Gln Thr Lys Lys Arg Met Ala Lys Pro Lys Asn Arg Ala Val Ala Gly
35      40      45
Thr Gly Ala Arg Ala Arg Ala Gly Leu Arg Ala Gly Phe Thr Ile Asp
50      55      60
Leu Gly Ser Gly Phe Ser Pro Pro Thr Pro Val Arg Ala Glu Ala Glu
65      70      75      80
Asp Arg Ala Gln Asp Glu Ala Ser Ala Leu Asp Thr Val Gly Ala Glu
85      90      95
Ala Val Ala Pro Ala Ala Ser Ser Ala Glu Ala Gln Ser Gly Ala Gly
100     105     110
Ser Gln Ala Gln Glu Ala Asp Gly Ala Gly Val Gly Pro Lys Ala Glu
115     120     125
Ser Val Val Gly Ala Ala Met Ala Ser Ala Ile Ala Pro Pro Pro Gly
130     135     140
Val Thr Glu Ala Leu Gly Ala Ala Glu Ala Pro Ala Met Ala Gly Ala
145     150     155     160
Pro Lys Val Ala Glu Ala Pro Arg Glu Ala Glu Thr Ser Arg Ala Ala
165     170     175
Val Pro Pro Gly Thr Val Val Pro Thr Glu Ala Ala Ala Pro Thr Glu
180     185     190
Val Thr Glu Gly Pro Gly Val Ala Ala Pro Thr Lys Val Ala Glu Ala
195     200     205
Pro Gly Val Ala Ser Pro Thr Glu Ala Ala Glu Ala Pro Val Pro Ala
210     215     220
Thr Pro Thr Gly Ala Ala Ala Pro Thr Gly Ala Ala Glu Ser Pro Gly
225     230     235     240
Thr Ser Gly Ser Pro Arg Thr Ala Val Val Pro Gly Thr Ser Ala Ala
245     250     255
Lys Lys Ala Thr Pro Gly Ala His Thr Gly Ala Ile Pro Lys Ala Thr
260     265     270
Ser Ala Thr Gly Ala Val Pro Lys Gly Gly Gly Lys Gly Val Thr Arg
275     280     285
Ser Arg Asn Gly Gly Lys Gly Lys Gly Lys Lys Ser Lys Val Glu Val
290     295     300
Asp Glu Leu Gly Met Gly Phe Arg Pro Gly Asp Gly Ala Ala Ala Ala
305     310     315     320
Ala Ala Ala Ser Ala Asn Gly Gly Gln Ala Phe Leu Ala Glu Val Pro
325     330     335
Asp Ser Glu Glu Gly Glu Ser Gly Trp Thr Asp Thr Glu Ser Asp Ser
340     345     350
Asp Ser Glu Pro Glu Thr Gln Arg Arg Gly Arg Gly Arg Pro Val
355     360     365
Ala Met Gln Lys Arg Pro Phe Pro Tyr Glu Ile Asp Glu Ile Leu Gly
370     375     380
Val Arg Asp Leu Arg Lys Val Leu Ala Leu Leu Gln Lys Ser Asp Asp
385     390     395     400
Pro Phe Ile Gln Gln Val Ala Leu Leu Thr Leu Ser Asn Asn Ala Asn
405     410     415
Tyr Ser Cys Asn Gln Glu Thr Ile Arg Lys Leu Gly Gly Leu Pro Ile
420     425     430
Ile Ala Asn Met Ile Asn Lys Thr Asp Pro His Ile Lys Glu Lys Ala
435     440     445
Leu Met Ala Met Asn Asn Leu Ser Glu Asn Tyr Glu Asn Gln Gly Arg
450     455     460
Leu Gln Val Tyr Met Asn Lys Val Met Asp Asp Ile Met Ala Ser Asn
465     470     475     480
Leu Asn Ser Ala Val Gln Val Val Gly Leu Lys Phe Leu Thr Asn Met
485     490     495
Thr Ile Thr Asn Asp Tyr Gln His Leu Leu Val Asn Ser Ile Ala Asn

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500  
 Phe Phe Arg Leu Leu Ser Gln Gly 505  
 515 Gly Gly Lys Ile Lys Val Glu Ile  
 Leu Lys Ile Leu Ser Asn Phe 520  
 530 Ala Glu Asn Pro Asp Met Leu Lys Lys  
 Leu Leu Ser Thr Gln Val 535  
 545 Pro Ala Ser Phe Ser 540  
 Tyr Val Glu Ser Glu Ile Leu Ile Asn Ala Leu Thr Leu Phe Glu Ile  
 565 555 560  
 Ile Tyr Asp Asn Leu Arg Ala Glu Val Phe Asn Tyr Arg Glu Phe Asn  
 580 570 575  
 Lys Gly Ser Leu Phe Tyr Leu Cys 585  
 595 Thr Thr Ser Gly Val Cys Val Lys  
 Lys Ile Arg Ala Leu Ala Asn His His Asp Leu Leu Val Lys Val Lys  
 610 605  
 Val Ile Lys Leu Val Asn Lys Phe 620  
 625 630

<210> 495  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens  
 <400> 495

Met Gly Met Ser Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe  
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 20 25 30  
 Tyr Leu Leu Ile His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro  
 35 40 45  
 Ser Leu Thr Leu Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met  
 50 55 60  
 Val Val Ala Phe Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys  
 65 70 75 80  
 Leu Leu Met Ser Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu  
 85 90 95  
 Val Thr Leu Ala Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu  
 100 105 110  
 Tyr Val Ala Lys Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp  
 115 120 125  
 Asn Ser Thr Lys Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys  
 130 135 140  
 Cys Gly Ile Asn Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser  
 145 150 155 160  
 Cys Pro Ser Asp Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu  
 165 170 175  
 Trp Phe His Ser Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val  
 180 185 190  
 Cys Val Ile Glu Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys  
 195 200 205  
 Gln Ile Asp Lys Thr Ser Gln Thr Ile Gly Leu  
 210 215

<210> 496  
 <211> 739  
 <212> PRT  
 <213> Homo sapiens  
 <400> 496

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 Ile Met Phe Ala Ala Ser Gln Ala Phe Lys Ile Glu Thr Thr Pro Glu  
 20 25 30  
 Ser Arg Tyr Leu Ala Gln Ile Gly Asp Ser Val Ser Leu Thr Cys Ser  
 35 40 45  
 Thr Thr Gly Cys Glu Ser Pro Phe Phe Ser Trp Arg Thr Gln Ile Asp  
 50 55 60  
 Ser Pro Leu Asn Gly Lys Val Thr Asn Glu Gly Thr Thr Ser Thr Leu  
 65 70 75 80  
 Thr Met Asn Pro Val Ser Phe Gly Asn Glu His Ser Tyr Leu Cys Thr  
 85 90 95



Ala	Thr	Cys	Glu	Ser	Arg	Lys	Leu	Glu	Lys	Gly	Ile	Gln	Val	Glu	Ile
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Tyr	Ser	Phe	Pro	Lys	Asp	Pro	Glu	Ile	His	Leu	Ser	Gly	Pro	Leu	Glu
		115					120					125			
Ala	Gly	Lys	Pro	Ile	Thr	Val	Lys	Cys	Ser	Val	Ala	Asp	Val	Tyr	Pro
		130				135					140				
Phe	Asp	Arg	Leu	Glu	Ile	Asp	Leu	Leu	Lys	Gly	Asp	His	Leu	Met	Lys
145					150					155					160
Ser	Gln	Glu	Phe	Leu	Glu	Asp	Ala	Asp	Arg	Lys	Ser	Leu	Glu	Thr	Lys
				165					170						175
Ser	Leu	Glu	Val	Thr	Phe	Thr	Pro	Val	Ile	Glu	Asp	Ile	Gly	Lys	Val
			180					185						190	
Leu	Val	Cys	Arg	Ala	Lys	Leu	His	Ile	Asp	Glu	Met	Asp	Ser	Val	Pro
		195					200					205			
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225					230					235					240
Ser	Val	Thr	Met	Thr	Cys	Ser	Ser	Glu	Gly	Leu	Pro	Ala	Pro	Glu	Ile
				245					250						255
Phe	Trp	Ser	Lys	Lys	Leu	Asp	Asn	Gly	Asn	Leu	Gln	His	Leu	Ser	Gly
			260					265					270		
Asn	Ala	Thr	Leu	Thr	Leu	Ile	Ala	Met	Arg	Met	Glu	Asp	Ser	Gly	Ile
		275					280					285			
Tyr	Val	Cys	Glu	Gly	Val	Asn	Leu	Ile	Gly	Lys	Asn	Arg	Lys	Glu	Val
		290				295					300				
Glu	Leu	Ile	Val	Gln	Glu	Lys	Pro	Phe	Thr	Val	Glu	Ile	Ser	Pro	Gly
305				310						315					320
Pro	Arg	Ile	Ala	Ala	Gln	Ile	Gly	Asp	Ser	Val	Met	Leu	Thr	Cys	Ser
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		355					360					365			
Thr	Leu	Ser	Pro	Val	Ser	Phe	Glu	Asn	Glu	His	Ser	Tyr	Leu	Cys	Thr
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Tyr	Ser	Phe	Pro	Arg	Asp	Pro	Glu	Ile	Glu	Met	Ser	Gly	Gly	Leu	Val
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Asn	Gly	Ser	Ser	Val	Thr	Val	Ser	Cys	Lys	Val	Pro	Ser	Val	Tyr	Pro
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Leu	Asp	Arg	Leu	Glu	Ile	Glu	Leu	Leu	Lys	Gly	Glu	Thr	Ile	Leu	Glu
		435					440					445			
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		450				455					460				
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465					470					475					480
Leu	Val	Cys	Gln	Ala	Lys	Leu	His	Ile	Asp	Asp	Met	Glu	Phe	Glu	Pro
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Lys	Gln	Arg	Gln	Ser	Thr	Gln	Thr	Leu	Tyr	Val	Asn	Val	Ala	Pro	Arg
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Ser	Val	Asn	Met	Thr	Cys	Leu	Ser	Gln	Gly	Phe	Pro	Ala	Pro	Lys	Ile
		530				535					540				
Leu	Trp	Ser	Arg	Gln	Leu	Pro	Asn	Gly	Glu	Leu	Gln	Pro	Leu	Ser	Glu
545					550				555						560
Asn	Ala	Thr	Leu	Thr	Leu	Ile	Ser	Thr	Lys	Met	Glu	Asp	Ser	Gly	Val
				565					570						575
Tyr	Leu	Cys	Glu	Gly	Ile	Asn	Gln	Ala	Gly	Arg	Ser	Arg	Lys	Glu	Val
			580					585					590		
Glu	Leu	Ile	Ile	Gln	Val	Thr	Pro	Lys	Asp	Ile	Lys	Leu	Thr	Ala	Phe
		595					600					605			
Pro	Ser	Glu	Ser	Val	Lys	Glu	Gly	Asp	Thr	Val	Ile	Ile	Ser	Cys	Thr
		610				615					620				
Cys	Gly	Asn	Val	Pro	Glu	Thr	Trp	Ile	Ile	Leu	Lys	Lys	Lys	Ala	Glu
625					630					635					640
Thr	Gly	Asp	Thr	Val	Leu	Lys	Ser	Ile	Asp	Gly	Ala	Tyr	Thr	Ile	Arg

645 650 655  
 Lys Ala Gln Leu Lys Asp Ala Gly Val Tyr Glu Cys Glu Ser Lys Asn  
 660 665 670  
 Lys Val Gly Ser Gln Leu Arg Ser Leu Thr Leu Asp Val Gln Gly Arg  
 675 680 685  
 Glu Asn Asn Lys Asp Tyr Phe Ser Pro Glu Leu Leu Val Leu Tyr Phe  
 690 695 700  
 Ala Ser Ser Leu Ile Ile Pro Ala Ile Gly Met Ile Ile Tyr Phe Ala  
 705 710 715 720  
 Arg Lys Ala Asn Met Lys Gly Ser Tyr Ser Leu Val Glu Ala Gln Lys  
 725 730 735  
 Ser Lys Val

<210> 497  
 <211> 441  
 <212> PRT  
 <213> Homo sapiens  
 <400> 497

Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly  
 1 5 10 15  
 Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His  
 20 25 30  
 Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu  
 35 40 45  
 Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser  
 50 55 60  
 Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val  
 65 70 75 80  
 Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Glu Gln Pro His Thr Glu  
 85 90 95  
 Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro  
 100 105 110  
 Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val  
 115 120 125  
 Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly  
 130 135 140  
 Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro  
 145 150 155 160  
 Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro  
 165 170 175  
 Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly  
 180 185 190  
 Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser  
 195 200 205  
 Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys  
 210 215 220  
 Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys  
 225 230 235 240  
 Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val  
 245 250 255  
 Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly  
 260 265 270  
 Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln  
 275 280 285  
 Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly  
 290 295 300  
 Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser  
 305 310 315 320  
 Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln  
 325 330 335  
 Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser  
 340 345 350  
 Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn  
 355 360 365  
 Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala  
 370 375 380  
 Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser  
 385 390 395 400

Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser  
 405 410 415  
 Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val  
 420 425 430  
 Ser Ala Ser Leu Ala Lys Gln Gly Leu  
 435 440

<210> 498  
 <211> 476  
 <212> PRT  
 <213> Homo sapiens  
 <400> 498

Met Met Thr Ala Lys Ala Val Asp Lys Ile Pro Val Thr Leu Ser Gly  
 1 5 10 15  
 Phe Val His Gln Leu Ser Asp Asn Ile Tyr Pro Val Glu Asp Leu Ala  
 20 25 30  
 Ala Thr Ser Val Thr Ile Phe Pro Asn Ala Glu Leu Gly Gly Pro Phe  
 35 40 45  
 Asp Gln Met Asn Gly Val Ala Gly Asp Gly Met Ile Asn Ile Asp Met  
 50 55 60  
 Thr Gly Glu Lys Arg Ser Leu Asp Leu Pro Tyr Pro Ser Ser Phe Ala  
 65 70 75 80  
 Pro Val Ser Ala Pro Arg Asn Gln Thr Phe Thr Tyr Met Gly Lys Phe  
 85 90 95  
 Ser Ile Asp Pro Gln Tyr Pro Gly Ala Ser Cys Tyr Pro Glu Gly Ile  
 100 105 110  
 Ile Asn Ile Val Ser Ala Gly Ile Leu Gln Gly Val Thr Ser Pro Ala  
 115 120 125  
 Ser Thr Thr Ala Ser Ser Ser Val Thr Ser Ala Ser Pro Asn Pro Leu  
 130 135 140  
 Ala Thr Gly Pro Leu Gly Val Cys Thr Met Ser Gln Thr Gln Pro Asp  
 145 150 155 160  
 Leu Asp His Leu Tyr Ser Pro Pro Pro Pro Pro Pro Tyr Ser Gly  
 165 170 175  
 Cys Ala Gly Asp Leu Tyr Gln Asp Pro Ser Ala Phe Leu Ser Ala Ala  
 180 185 190  
 Thr Thr Ser Thr Ser Ser Ser Leu Ala Tyr Pro Pro Pro Ser Tyr  
 195 200 205  
 Pro Ser Pro Lys Pro Ala Thr Asp Pro Gly Leu Phe Pro Met Ile Pro  
 210 215 220  
 Asp Tyr Pro Gly Phe Phe Pro Ser Gln Cys Gln Arg Asp Leu His Gly  
 225 230 235 240  
 Thr Ala Gly Pro Asp Arg Lys Pro Phe Pro Cys Pro Leu Asp Thr Leu  
 245 250 255  
 Arg Val Pro Pro Pro Leu Thr Pro Leu Ser Thr Ile Arg Asn Phe Thr  
 260 265 270  
 Leu Gly Gly Pro Ser Ala Gly Val Thr Gly Pro Gly Ala Ser Gly Gly  
 275 280 285  
 Ser Glu Gly Pro Arg Leu Pro Gly Ser Ser Ser Ala Ala Ala Ala Ala  
 290 295 300  
 Ala Ala Ala Ala Ala Tyr Asn Pro His His Leu Pro Leu Arg Pro Ile  
 305 310 315 320  
 Leu Arg Pro Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Val His  
 325 330 335  
 Glu Arg Pro Tyr Pro Cys Pro Ala Glu Gly Cys Asp Arg Arg Phe Ser  
 340 345 350  
 Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly His Lys  
 355 360 365  
 Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His  
 370 375 380  
 Leu Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys  
 385 390 395 400  
 Asp Tyr Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His  
 405 410 415  
 Thr Lys Ile His Leu Arg Gln Lys Glu Arg Lys Ser Ser Ala Pro Ser  
 420 425 430  
 Ala Ser Val Pro Ala Pro Ser Thr Ala Ser Cys Ser Gly Gly Val Gln  
 435 440 445  
 Pro Gly Gly Thr Leu Cys Ser Ser Asn Ser Ser Ser Leu Gly Gly Gly

450  
 Pro Leu Ala Pro Cys Ser Ser Arg Thr Arg Thr Pro  
 465 470 475

<210> 499  
 <211> 406  
 <212> PRT  
 <213> Homo sapiens  
 <400> 499

Met Ser Gly Cys Pro Phe Leu Gly Asn Asn Phe Gly Tyr Thr Phe Lys  
 1 5 10 15  
 Lys Leu Pro Val Glu Gly Ser Glu Glu Asp Lys Ser Gln Thr Gly Val  
 20 25 30  
 Asn Arg Ala Ser Lys Gly Gly Leu Ile Tyr Gly Asn Tyr Leu His Leu  
 35 40 45  
 Glu Lys Val Leu Asn Ala Gln Glu Leu Gln Ser Glu Thr Lys Gly Asn  
 50 55 60  
 Lys Ile His Asp Glu His Leu Phe Ile Ile Thr His Gln Ala Tyr Glu  
 65 70 75 80  
 Leu Trp Phe Lys Gln Ile Leu Trp Glu Leu Asp Ser Val Arg Glu Ile  
 85 90 95  
 Phe Gln Asn Gly His Val Arg Asp Glu Arg Asn Met Leu Lys Val Val  
 100 105 110  
 Ser Arg Met His Arg Val Ser Val Ile Leu Lys Leu Leu Val Gln Gln  
 115 120 125  
 Phe Ser Ile Leu Glu Thr Met Thr Ala Leu Asp Phe Asn Asp Phe Arg  
 130 135 140  
 Glu Tyr Leu Ser Pro Ala Ser Gly Phe Gln Ser Leu Gln Phe Arg Leu  
 145 150 155 160  
 Leu Glu Asn Lys Ile Gly Val Leu Gln Asn Met Arg Val Pro Tyr Asn  
 165 170 175  
 Arg Arg His Tyr Arg Asp Asn Phe Lys Gly Glu Glu Asn Glu Leu Leu  
 180 185 190  
 Leu Lys Ser Glu Gln Glu Lys Thr Leu Leu Glu Leu Val Glu Ala Trp  
 195 200 205  
 Leu Glu Arg Thr Pro Gly Leu Glu Pro His Gly Phe Asn Phe Trp Gly  
 210 215 220  
 Lys Leu Glu Lys Asn Ile Thr Arg Gly Leu Glu Glu Glu Phe Ile Arg  
 225 230 235 240  
 Ile Gln Ala Lys Glu Ser Glu Glu Lys Glu Glu Gln Val Ala Glu  
 245 250 255  
 Phe Gln Lys Gln Lys Glu Val Leu Leu Ser Leu Phe Asp Glu Lys Arg  
 260 265 270  
 His Glu His Leu Leu Ser Lys Gly Glu Arg Arg Leu Ser Tyr Arg Ala  
 275 280 285  
 Leu Gln Gly Ala Leu Met Ile Tyr Phe Tyr Arg Glu Glu Pro Arg Phe  
 290 295 300  
 Gln Val Pro Phe Gln Leu Leu Thr Ser Leu Met Asp Ile Asp Ser Leu  
 305 310 315 320  
 Met Thr Lys Trp Arg Tyr Asn His Val Cys Met Val His Arg Met Leu  
 325 330 335  
 Gly Ser Lys Ala Gly Thr Gly Gly Ser Ser Gly Tyr His Tyr Leu Arg  
 340 345 350  
 Ser Thr Val Ser Asp Arg Tyr Lys Val Phe Val Asp Leu Phe Asn Leu  
 355 360 365  
 Ser Thr Tyr Leu Ile Pro Arg His Trp Ile Pro Lys Met Asn Pro Thr  
 370 375 380  
 Ile His Lys Phe Leu Tyr Thr Ala Glu Tyr Cys Asp Ser Ser Tyr Phe  
 385 390 395 400  
 Ser Ser Asp Glu Ser Asp  
 405

<210> 500  
 <211> 470  
 <212> PRT  
 <213> Homo sapiens  
 <400> 500

Met Leu Arg Gly Ile Ser Gln Leu Pro Ala Val Ala Thr Met Ser Trp  
 1 5 10 15

Val Leu Leu Pro Val Leu Trp Leu Ile Val Gln Thr Gln Ala Ile Ala  
 20 25 30  
 Ile Lys Gln Thr Pro Glu Leu Thr Leu His Glu Ile Val Cys Pro Lys  
 35 40 45  
 Lys Leu His Ile Leu His Lys Arg Glu Ile Lys Asn Asn Gln Thr Glu  
 50 55 60  
 Lys His Gly Lys Glu Glu Arg Tyr Glu Pro Glu Val Gln Tyr Gln Met  
 65 70 75 80  
 Ile Leu Asn Gly Glu Glu Ile Ile Leu Ser Leu Gln Lys Thr Lys His  
 85 90 95  
 Leu Leu Gly Pro Asp Tyr Thr Glu Thr Leu Tyr Ser Pro Arg Gly Glu  
 100 105 110  
 Glu Ile Thr Thr Lys Pro Glu Asn Met Glu His Cys Tyr Tyr Lys Gly  
 115 120 125  
 Asn Ile Leu Asn Glu Lys Asn Ser Val Ala Ser Ile Ser Thr Cys Asp  
 130 135 140  
 Gly Leu Arg Gly Tyr Phe Thr His His His Gln Arg Tyr Gln Ile Lys  
 145 150 155 160  
 Pro Leu Lys Ser Thr Asp Glu Lys Glu His Ala Val Phe Thr Ser Asn  
 165 170 175  
 Gln Glu Glu Gln Asp Pro Ala Asn His Thr Cys Gly Val Lys Ser Thr  
 180 185 190  
 Asp Gly Lys Gln Gly Pro Ile Arg Ile Ser Arg Ser Leu Lys Ser Pro  
 195 200 205  
 Glu Lys Glu Asp Phe Leu Arg Ala Gln Lys Tyr Ile Asp Leu Tyr Leu  
 210 215 220  
 Val Leu Asp Asn Ala Phe Tyr Lys Asn Tyr Asn Glu Asn Leu Thr Leu  
 225 230 235 240  
 Ile Arg Ser Phe Val Phe Asp Val Met Asn Leu Leu Asn Val Ile Tyr  
 245 250 255  
 Asn Thr Ile Asp Val Gln Val Ala Leu Val Gly Met Glu Ile Trp Ser  
 260 265 270  
 Asp Gly Asp Lys Ile Lys Val Val Pro Ser Ala Ser Thr Thr Phe Asp  
 275 280 285  
 Asn Phe Leu Arg Trp His Ser Ser Asn Leu Gly Lys Lys Ile His Asp  
 290 295 300  
 His Ala Gln Leu Leu Ser Gly Ile Ser Phe Asn Asn Arg Arg Val Gly  
 305 310 315 320  
 Leu Ala Ala Ser Asn Ser Leu Cys Ser Pro Ser Ser Val Ala Val Ile  
 325 330 335  
 Glu Ala Lys Lys Lys Asn Asn Val Ala Leu Val Gly Val Met Ser His  
 340 345 350  
 Glu Leu Gly His Val Leu Gly Met Pro Asp Val Pro Phe Asn Thr Lys  
 355 360 365  
 Cys Pro Ser Gly Ser Cys Val Met Asn Gln Tyr Leu Ser Ser Lys Phe  
 370 375 380  
 Pro Lys Asp Phe Ser Thr Ser Cys Arg Ala His Phe Glu Arg Tyr Leu  
 385 390 395 400  
 Leu Ser Gln Lys Pro Lys Cys Leu Leu Gln Ala Pro Ile Pro Thr Asn  
 405 410 415  
 Ile Met Thr Thr Pro Val Cys Gly Asn His Leu Leu Glu Val Gly Glu  
 420 425 430  
 Asp Cys Asp Cys Gly Ser Pro Lys Glu Cys Thr Asn Leu Cys Cys Glu  
 435 440 445  
 Ala Leu Thr Cys Lys Leu Lys Pro Gly Thr Asp Cys Gly Gly Asp Ala  
 450 455 460  
 Pro Asn His Thr Thr Glu  
 465 470

<210> 501  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens  
 <400> 501

Met Thr Leu Asp His Gln Ile Ile Asn Pro Thr Leu Lys Trp Ser Gln  
 1 5 10 15  
 Pro Ala Val Pro Ser Gly Gly Pro Leu Val Gln His Ala His Thr Thr  
 20 25 30  
 Leu Asp Ser Asp Ala Gly Leu Thr Glu Asn Pro Leu Thr Lys Leu Leu

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      35      40      45
Ala Ile Gly Lys Glu Asp Asp Asn Ala Gln Trp His Met Glu Asp Val
50      55      60
Ile Glu Asp Ile Ile Gly Met Glu Ser Ser Phe Lys Glu Glu Gly Ala
65      70      75      80
Asp Ser Pro Leu Leu Met Gln Arg Thr Leu Ser Gly Ser Ile Leu Asp
85      90      95
Val Tyr Ser Gly Glu Gln Gly Ile Ser Pro Ile Asn Met Gly Leu Thr
100      105      110
Ser Ala Ser Cys Pro Ser Ser Leu Pro Met Lys Arg Glu Ile Thr Glu
115      120      125
Thr Asp Thr Arg Ala Leu Ala Lys Glu Arg Gln Lys Lys Asp Asn His
130      135      140
Asn Leu Ile Glu Arg Arg Arg Arg Tyr Asn Ile Asn Tyr Arg Ile Lys
145      150      155      160
Glu Leu Gly Thr Leu Ile Pro Lys Ser Asn Asp Pro Asp Met Arg Trp
165      170      175
Asn Lys Gly Thr Ile Leu Lys Ala Ser Val Glu Tyr Ile Lys Trp Leu
180      185      190
Gln Lys Glu Gln Gln Arg Ala Arg Glu Leu Glu His Arg Gln Lys Lys
195      200      205
Leu Glu Gln Ala Asn Arg Arg Leu Leu Leu Arg Ile Gln Glu Leu Glu
210      215      220
Ile Gln Ala Arg Thr His Gly Leu Pro Thr Leu Ala Ser Leu Gly Thr
225      230      235      240
Val Asp Leu Gly Ala His Val Thr Lys Gln Ser His Pro Glu Gln
245      250      255
Asn Ser Val Asp Tyr Cys Gln Gln Leu Thr Val Ser Gln Gly Pro Ser
260      265      270
Pro Glu Leu Cys Asp Gln Ala Ile Ala Phe Ser Asp Pro Leu Ser Tyr
275      280      285
Phe Thr Asp Leu Ser Phe Ser Ala Ala Leu Lys Glu Glu Gln Arg Leu
290      295      300
Asp Gly Met Leu Leu Asp Asp Thr Ile Ser Pro Phe Gly Thr Asp Pro
305      310      315      320
Leu Leu Ser Ala Thr Ser Pro Ala Val Ser Lys Glu Ser Ser Arg Arg
325      330      335
Ser Ser Phe Ser Ser Asp Asp Gly Asp Glu Leu
340      345

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<210> 502
<211> 162
<212> PRT
<213> Homo sapiens
<400> 502

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Met Lys Glu Thr Ile Met Asn Gln Glu Lys Leu Ala Lys Leu Gln Ala
1      5      10      15
Gln Val Arg Ile Gly Gly Lys Gly Thr Ala Arg Arg Lys Lys Lys Val
20      25      30
Val His Arg Thr Ala Thr Ala Asp Lys Lys Leu Gln Phe Ser Leu
35      40      45
Lys Lys Leu Gly Val Asn Asn Ile Ser Gly Ile Glu Glu Val Asn Met
50      55      60
Phe Thr Asn Gln Gly Thr Val Ile His Phe Asn Asn Pro Lys Val Gln
65      70      75      80
Ala Ser Leu Ala Ala Asn Thr Phe Thr Ile Thr Gly His Ala Glu Thr
85      90      95
Lys Gln Leu Thr Glu Met Leu Pro Ser Ile Leu Asn Gln Leu Gly Ala
100      105      110
Asp Ser Leu Thr Ser Leu Arg Arg Leu Ala Glu Ala Leu Pro Lys Gln
115      120      125
Ser Val Asp Gly Lys Ala Pro Leu Ala Thr Gly Glu Asp Asp Asp
130      135      140
Glu Val Pro Asp Leu Val Glu Asn Phe Asp Glu Ala Ser Lys Asn Glu
145      150      155      160
Ala Asn

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<210> 503

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<211> 2602  
 <212> PRT  
 <213> Homo sapiens  
 <400> 503  
 Met Pro Val Thr Glu Lys Asp Leu Ala Glu Asp Ala Pro Trp Lys Lys  
 1 5 10 15  
 Ile Gln Gln Asn Thr Phe Thr Arg Trp Cys Asn Glu His Leu Lys Cys  
 20 25 30  
 Val Asn Lys Arg Ile Gly Asn Leu Gln Thr Asp Leu Ser Asp Gly Leu  
 35 40 45  
 Arg Leu Ile Ala Leu Leu Glu Val Leu Ser Gln Lys Arg Met Tyr Arg  
 50 55 60  
 Lys Tyr His Gln Arg Pro Thr Phe Arg Gln Met Gln Leu Glu Asn Val  
 65 70 75 80  
 Ser Val Ala Leu Glu Phe Leu Asp Arg Glu Ser Ile Lys Leu Val Ser  
 85 90 95  
 Ile Asp Ser Lys Ala Ile Val Asp Gly Asn Leu Lys Leu Ile Leu Gly  
 100 105 110  
 Leu Val Trp Thr Leu Ile Leu His Tyr Ser Ile Ser Met Pro Val Trp  
 115 120 125  
 Glu Asp Glu Gly Asp Asp Asp Ala Lys Lys Gln Thr Pro Lys Gln Arg  
 130 135 140  
 Leu Leu Gly Trp Ile Gln Asn Lys Ile Pro Tyr Leu Pro Ile Thr Asn  
 145 150 155 160  
 Phe Asn Gln Asn Trp Gln Asp Gly Lys Ala Leu Gly Ala Leu Val Asp  
 165 170 175  
 Ser Cys Ala Pro Gly Leu Cys Pro Asp Trp Glu Ser Trp Asp Pro Gln  
 180 185 190  
 Lys Pro Val Asp Asn Ala Arg Glu Ala Met Gln Gln Ala Asp Asp Trp  
 195 200 205  
 Leu Gly Val Pro Gln Val Ile Thr Pro Glu Glu Ile Ile His Pro Asp  
 210 215 220  
 Val Asp Glu His Ser Val Met Thr Tyr Leu Ser Gln Phe Pro Lys Ala  
 225 230 235 240  
 Lys Leu Lys Pro Gly Ala Pro Leu Lys Pro Lys Leu Asn Pro Lys Lys  
 245 250 255  
 Ala Arg Ala Tyr Gly Arg Gly Ile Glu Pro Thr Gly Asn Met Val Lys  
 260 265 270  
 Gln Pro Ala Lys Phe Thr Val Asp Thr Ile Ser Ala Gly Gln Gly Asp  
 275 280 285  
 Val Met Val Phe Val Glu Asp Pro Glu Gly Asn Lys Glu Glu Ala Gln  
 290 295 300  
 Val Thr Pro Asp Ser Asp Lys Asn Lys Thr Tyr Ser Val Glu Tyr Leu  
 305 310 315 320  
 Pro Lys Val Thr Gly Leu His Lys Val Thr Val Leu Phe Ala Gly Gln  
 325 330 335  
 His Ile Ser Lys Ser Pro Phe Glu Val Ser Val Asp Lys Ala Gln Gly  
 340 345 350  
 Asp Ala Ser Lys Val Thr Ala Lys Gly Pro Gly Leu Glu Ala Val Gly  
 355 360 365  
 Asn Ile Ala Asn Lys Pro Thr Tyr Phe Asp Ile Tyr Thr Ala Gly Ala  
 370 375 380  
 Gly Val Gly Asp Ile Gly Val Glu Val Glu Asp Pro Gln Gly Lys Asn  
 385 390 395 400  
 Thr Val Glu Leu Leu Val Glu Asp Lys Gly Asn Gln Val Tyr Arg Cys  
 405 410 415  
 Val Tyr Lys Pro Met Gln Pro Gly Pro His Val Val Lys Ile Phe Phe  
 420 425 430  
 Ala Gly Asp Thr Ile Pro Lys Ser Pro Phe Val Val Gln Val Gly Glu  
 435 440 445  
 Ala Cys Asn Pro Asn Ala Cys Arg Ala Ser Gly Arg Gly Leu Gln Pro  
 450 455 460  
 Lys Gly Val Arg Ile Arg Glu Thr Thr Asp Phe Lys Val Asp Thr Lys  
 465 470 475 480  
 Ala Ala Gly Ser Gly Glu Leu Gly Val Thr Met Lys Gly Pro Lys Gly  
 485 490 495  
 Leu Glu Glu Leu Val Lys Gln Lys Asp Phe Leu Asp Gly Val Tyr Ala  
 500 505 510  
 Phe Glu Tyr Tyr Pro Ser Thr Pro Gly Arg Tyr Ser Ile Ala Ile Thr

		515				520				525				
Trp	Gly	Gly	His	His	Ile	Pro	Lys	Ser	Pro	Phe	Glu	Val	Gln	Val
	530					535					540			
Pro	Glu	Ala	Gly	Met	Gln	Lys	Val	Arg	Ala	Trp	Gly	Pro	Gly	Leu
	545				550					555				560
Gly	Gly	Ile	Val	Gly	Arg	Ser	Ala	Asp	Phe	Val	Val	Glu	Ser	Ile
				565					570					575
Ser	Glu	Val	Gly	Ser	Leu	Gly	Phe	Ala	Ile	Glu	Gly	Pro	Ser	Gln
			580					585					590	Ala
Lys	Ile	Glu	Tyr	Asn	Asp	Gln	Asn	Asp	Gly	Ser	Cys	Asp	Val	Lys
		595					600					605		Tyr
Trp	Pro	Lys	Glu	Pro	Gly	Glu	Tyr	Ala	Val	His	Ile	Met	Cys	Asp
	610				615						620			Asp
Glu	Asp	Ile	Lys	Asp	Ser	Pro	Tyr	Met	Ala	Phe	Ile	His	Pro	Ala
	625				630					635				Thr
Gly	Gly	Tyr	Asn	Pro	Asp	Leu	Val	Arg	Ala	Tyr	Gly	Pro	Gly	Leu
			645						650					Glu
Lys	Ser	Gly	Cys	Ile	Val	Asn	Asn	Leu	Ala	Glu	Phe	Thr	Val	Asp
			660					665					670	Pro
Lys	Asp	Ala	Gly	Lys	Ala	Pro	Leu	Lys	Ile	Phe	Ala	Gln	Asp	Gly
		675					680						685	Glu
Gly	Gln	Arg	Ile	Asp	Ile	Gln	Met	Lys	Asn	Arg	Met	Asp	Gly	Thr
	690				695						700			Tyr
Ala	Cys	Ser	Tyr	Thr	Pro	Val	Lys	Ala	Ile	Lys	His	Thr	Ile	Ala
	705				710					715				Val
Val	Trp	Gly	Gly	Val	Asn	Ile	Pro	His	Ser	Pro	Tyr	Arg	Val	Asn
			725						730					Ile
Gly	Gln	Gly	Ser	His	Pro	Gln	Lys	Val	Lys	Val	Phe	Gly	Pro	Gly
		740						745					750	Val
Glu	Arg	Ser	Gly	Leu	Lys	Ala	Asn	Glu	Pro	Thr	His	Phe	Thr	Val
		755					760					765		Asp
Cys	Thr	Glu	Ala	Gly	Glu	Gly	Asp	Val	Ser	Val	Gly	Ile	Lys	Cys
	770				775						780			Asp
Ala	Arg	Val	Leu	Ser	Glu	Asp	Glu	Glu	Asp	Val	Asp	Phe	Asp	Ile
	785				790					795				Ile
His	Asn	Ala	Asn	Asp	Thr	Phe	Thr	Val	Lys	Tyr	Val	Pro	Pro	Ala
			805						810					Ala
Gly	Arg	Tyr	Thr	Ile	Lys	Val	Leu	Phe	Ala	Ser	Gln	Glu	Ile	Pro
		820						825					830	Ala
Ser	Pro	Phe	Arg	Val	Lys	Val	Asp	Pro	Ser	His	Asp	Ala	Ser	Lys
		835					840					845		Val
Lys	Ala	Glu	Gly	Pro	Gly	Leu	Ser	Lys	Ala	Gly	Val	Glu	Asn	Gly
	850				855						860			Lys
Pro	Thr	His	Phe	Thr	Val	Tyr	Thr	Lys	Gly	Ala	Gly	Lys	Ala	Pro
	865				870					875				Leu
Asn	Val	Gln	Phe	Asn	Ser	Pro	Leu	Pro	Gly	Asp	Ala	Val	Lys	Asp
			885						890					Leu
Asp	Ile	Ile	Asp	Asn	Tyr	Asp	Tyr	Ser	His	Thr	Val	Lys	Tyr	Thr
		900						905					910	Pro
Thr	Gln	Gln	Gly	Asn	Met	Gln	Val	Leu	Val	Thr	Tyr	Gly	Gly	Asp
		915					920						925	Pro
Ile	Pro	Lys	Ser	Pro	Phe	Thr	Val	Gly	Val	Ala	Ala	Pro	Leu	Asp
	930				935					940				Leu
Ser	Lys	Ile	Lys	Leu	Asn	Gly	Leu	Glu	Asn	Arg	Val	Glu	Val	Gly
	945				950					955				Lys
Asp	Gln	Glu	Phe	Thr	Val	Asp	Thr	Arg	Gly	Ala	Gly	Gly	Gln	Gly
			965					970						Lys
Leu	Asp	Val	Thr	Ile	Leu	Ser	Pro	Ser	Arg	Lys	Val	Val	Pro	Cys
		980						985					990	Leu
Val	Thr	Pro	Val	Thr	Gly	Arg	Glu	Asn	Ser	Thr	Ala	Lys	Phe	Ile
		995					1000						1005	Pro
Arg	Glu	Glu	Gly	Leu	Tyr	Ala	Val	Asp	Val	Thr	Tyr	Asp	Gly	His
	1010					1015						1020		
Pro	Val	Pro	Gly	Ser	Pro	Tyr	Thr	Val	Glu	Ala	Ser	Leu	Pro	Pro
	1025					1030								
Asp	Pro	Ser	Lys	Val	Lys	Ala	His	Gly	Pro	Gly	Leu	Glu	Gly	Gly
	1040					1045								
Leu	Val	Gly	Lys	Pro	Ala	Glu	Phe	Thr	Ile	Asp	Thr	Lys	Gly	Ala
	1055					1060								
														1065



Gly	Thr	Gly	Gly	Leu	Gly	Leu	Thr	Val	Glu	Gly	Pro	Cys	Glu	Ala
1070						1075					1080			
Lys	Ile	Glu	Cys	Ser	Asp	Asn	Gly	Asp	Gly	Thr	Cys	Ser	Val	Ser
1085						1090					1095			
Tyr	Leu	Pro	Thr	Lys	Pro	Gly	Glu	Tyr	Phe	Val	Asn	Ile	Leu	Phe
1100						1105					1110			
Glu	Glu	Val	His	Ile	Pro	Gly	Ser	Pro	Phe	Lys	Ala	Asp	Ile	Glu
1115						1120					1125			
Met	Pro	Phe	Asp	Pro	Ser	Lys	Val	Val	Ala	Ser	Gly	Pro	Gly	Leu
1130						1135					1140			
Glu	His	Gly	Lys	Val	Gly	Glu	Ala	Gly	Leu	Leu	Ser	Val	Asn	Cys
1145						1150					1155			
Ser	Glu	Ala	Gly	Pro	Gly	Ala	Leu	Gly	Leu	Glu	Ala	Val	Ser	Asp
1160						1165					1170			
Ser	Gly	Thr	Lys	Ala	Glu	Val	Ser	Ile	Gln	Asn	Asn	Lys	Asp	Gly
1175						1180					1185			
Thr	Tyr	Ala	Val	Thr	Tyr	Val	Pro	Leu	Thr	Ala	Gly	Met	Tyr	Thr
1190						1195					1200			
Leu	Thr	Met	Lys	Tyr	Gly	Gly	Glu	Leu	Val	Pro	His	Phe	Pro	Ala
1205						1210					1215			
Arg	Val	Lys	Val	Glu	Pro	Ala	Val	Asp	Thr	Ser	Arg	Ile	Lys	Val
1220						1225					1230			
Phe	Gly	Pro	Gly	Ile	Glu	Gly	Lys	Asp	Val	Phe	Arg	Glu	Ala	Thr
1235						1240					1245			
Thr	Asp	Phe	Thr	Val	Asp	Ser	Arg	Pro	Leu	Thr	Gln	Val	Gly	Gly
1250						1255					1260			
Asp	His	Ile	Lys	Ala	His	Ile	Ala	Asn	Pro	Ser	Gly	Ala	Ser	Thr
1265						1270					1275			
Glu	Cys	Phe	Val	Thr	Asp	Asn	Ala	Asp	Gly	Thr	Tyr	Gln	Val	Glu
1280						1285					1290			
Tyr	Thr	Pro	Phe	Glu	Lys	Gly	Leu	His	Val	Val	Glu	Val	Thr	Tyr
1295						1300					1305			
Asp	Asp	Val	Pro	Ile	Pro	Asn	Ser	Pro	Phe	Lys	Val	Ala	Val	Thr
1310						1315					1320			
Glu	Gly	Cys	Gln	Pro	Ser	Arg	Val	Gln	Ala	Gln	Gly	Pro	Gly	Leu
1325						1330					1335			
Lys	Glu	Ala	Phe	Thr	Asn	Lys	Pro	Asn	Val	Phe	Thr	Val	Val	Thr
1340						1345					1350			
Arg	Gly	Ala	Gly	Ile	Gly	Gly	Leu	Gly	Ile	Thr	Val	Glu	Gly	Pro
1355						1360					1365			
Ser	Glu	Ser	Lys	Ile	Asn	Cys	Arg	Asp	Asn	Lys	Asp	Gly	Ser	Cys
1370						1375					1380			
Ser	Ala	Glu	Tyr	Ile	Pro	Phe	Ala	Pro	Gly	Asp	Tyr	Asp	Val	Asn
1385						1390					1395			
Ile	Thr	Tyr	Gly	Gly	Ala	His	Ile	Pro	Gly	Ser	Pro	Phe	Arg	Val
1400						1405					1410			
Pro	Val	Lys	Asp	Val	Val	Asp	Pro	Ser	Lys	Val	Lys	Ile	Ala	Gly
1415						1420					1425			
Pro	Gly	Leu	Gly	Ser	Gly	Val	Arg	Ala	Arg	Val	Leu	Gln	Ser	Phe
1430						1435					1440			
Thr	Val	Asp	Ser	Ser	Lys	Ala	Gly	Leu	Ala	Pro	Leu	Glu	Val	Arg
1445						1450					1455			
Val	Leu	Gly	Pro	Arg	Gly	Leu	Val	Glu	Pro	Val	Asn	Met	Val	Asp
1460						1465					1470			
Asn	Gly	Asp	Gly	Thr	His	Thr	Val	Thr	Tyr	Thr	Pro	Ser	Gln	Glu
1475						1480					1485			
Gly	Pro	Tyr	Met	Val	Ser	Val	Lys	Tyr	Ala	Asp	Glu	Glu	Ile	Pro
1490						1495					1500			
Arg	Ser	Pro	Phe	Lys	Val	Lys	Val	Leu	Pro	Thr	Tyr	Asp	Ala	Ser
1505						1510					1515			
Lys	Val	Thr	Ala	Ser	Gly	Pro	Gly	Leu	Ser	Ser	Tyr	Gly	Val	Pro
1520						1525					1530			
Ala	Ser	Leu	Pro	Val	Asp	Phe	Ala	Ile	Asp	Ala	Arg	Asp	Ala	Gly
1535						1540					1545			
Glu	Gly	Leu	Leu	Ala	Val	Gln	Ile	Thr	Asp	Gln	Glu	Gly	Lys	Pro
1550						1555					1560			
Lys	Arg	Ala	Ile	Val	His	Asp	Asn	Lys	Asp	Gly	Thr	Tyr	Ala	Val
1565						1570					1575			
Thr	Tyr	Ile	Pro	Asp	Lys	Thr	Gly	Arg	Tyr	Met	Ile	Gly	Val	Thr

1580	Tyr Gly Gly Asp Asp Ile	1585	Pro Leu Ser Pro Tyr	1590	Arg Ile Arg Ala
1595	Thr Gln Thr Gly Asp Ala	1600	Ser Lys Cys Leu Ala	1605	Thr Gly Pro Gly
1610	Ile Ala Ser Thr Val Lys	1615	Thr Gly Glu Glu Val	1620	Gly Phe Val Val
1625	Asp Ala Lys Thr Ala Gly	1630	Lys Gly Lys Val Thr	1635	Cys Thr Val Leu
1640	Thr Pro Asp Gly Thr Glu	1645	Ala Glu Ala Asp Val	1650	Ile Glu Asn Glu
1655	Asp Gly Thr Tyr Asp Ile	1660	Phe Tyr Thr Ala Ala	1665	Lys Pro Gly Thr
1670	Tyr Val Ile Tyr Val Arg	1675	Phe Gly Gly Val Asp	1680	Ile Pro Asn Ser
1685	Pro Phe Thr Val Met Ala	1690	Thr Asp Gly Glu Val	1695	Thr Ala Val Glu
1700	Glu Ala Pro Val Asn Ala	1705	Cys Pro Pro Gly Phe	1710	Arg Pro Trp Val
1715	Thr Glu Glu Ala Tyr Val	1720	Pro Val Ser Asp Met	1725	Asn Gly Leu Gly
1730	Phe Lys Pro Phe Asp Leu	1735	Val Ile Pro Phe Ala	1740	Val Arg Lys Gly
1745	Glu Ile Thr Gly Glu Val	1750	His Met Pro Ser Gly	1755	Lys Thr Ala Thr
1760	Pro Glu Ile Val Asp Asn	1765	Lys Asp Gly Thr Val	1770	Thr Val Arg Tyr
1775	Ala Pro Thr Glu Val Gly	1780	Leu His Glu Met His	1785	Ile Lys Tyr Met
1790	Gly Ser His Ile Pro Glu	1795	Ser Pro Leu Gln Phe	1800	Tyr Val Asn Tyr
1805	Pro Asn Ser Gly Ser Val	1810	Ser Ala Tyr Gly Pro	1815	Gly Leu Val Tyr
1820	Gly Val Ala Asn Lys Thr	1825	Ala Thr Phe Thr Ile	1830	Val Thr Glu Asp
1835	Ala Gly Glu Gly Gly Leu	1840	Asp Leu Ala Ile Glu	1845	Gly Pro Ser Lys
1850	Ala Glu Ile Ser Cys Ile	1855	Asp Asn Lys Asp Gly	1860	Thr Cys Thr Val
1865	Thr Tyr Leu Pro Thr Leu	1870	Pro Gly Asp Tyr Ser	1875	Ile Leu Val Lys
1880	Tyr Asn Asp Lys His Ile	1885	Pro Gly Ser Pro Phe	1890	Thr Ala Lys Ile
1895	Thr Asp Asp Ser Arg Arg	1900	Cys Ser Gln Val Lys	1905	Leu Gly Ser Ala
1910	Ala Asp Phe Leu Leu Asp	1915	Ile Ser Glu Thr Asp	1920	Leu Ser Ser Leu
1925	Thr Ala Ser Ile Lys Ala	1930	Pro Ser Gly Arg Asp	1935	Glu Pro Cys Leu
1940	Leu Lys Arg Leu Pro Asn	1945	Asn His Ile Gly Ile	1950	Ser Phe Ile Pro
1955	Arg Glu Val Gly Glu His	1960	Leu Val Ser Ile Lys	1965	Lys Asn Gly Asn
1970	His Val Ala Asn Ser Pro	1975	Val Ser Ile Met Val	1980	Val Gln Ser Glu
1985	Ile Gly Asp Ala Arg Arg	1990	Ala Lys Val Tyr Gly	1995	Arg Gly Leu Ser
2000	Glu Gly Arg Thr Phe Glu	2005	Met Ser Asp Phe Ile	2010	Val Asp Thr Arg
2015	Asp Ala Gly Tyr Gly Gly	2020	Ile Ser Leu Ala Val	2025	Glu Gly Pro Ser
2030	Lys Val Asp Ile Gln Thr	2035	Glu Asp Leu Glu Asp	2040	Gly Thr Cys Lys
2045	Val Ser Tyr Phe Pro Thr	2050	Val Pro Gly Val Tyr	2055	Ile Val Ser Thr
2060	Lys Phe Ala Asp Glu His	2065	Val Pro Gly Ser Pro	2070	Phe Thr Val Lys
2075	Ile Ser Gly Glu Gly Arg	2080	Val Lys Glu Ser Ile	2085	Thr Arg Thr Ser
2090		2095		2100	

Arg Ala	Pro Ser Val Ala Thr	Val Gly Ser Ile Cys	Asp Leu Asn
2105	2110	2115	
Leu Lys	Ile Pro Glu Ile Asn	Ser Ser Asp Met Ser	Ala His Val
2120	2125	2130	
Thr Ser	Pro Ser Gly Arg Val	Thr Glu Ala Glu Ile	Val Pro Met
2135	2140	2145	
Gly Lys	Asn Ser His Cys Val	Arg Phe Val Pro Gln	Glu Met Gly
2150	2155	2160	
Val His	Thr Val Ser Val Lys	Tyr Arg Gly Gln His	Val Thr Gly
2165	2170	2175	
Ser Pro	Phe Gln Phe Thr Val	Gly Pro Leu Gly Glu	Gly Gly Ala
2180	2185	2190	
His Lys	Val Arg Ala Gly Gly	Pro Gly Leu Glu Arg	Gly Glu Ala
2195	2200	2205	
Gly Val	Pro Ala Glu Phe Ser	Ile Trp Thr Arg Glu	Ala Gly Ala
2210	2215	2220	
Gly Gly	Leu Ser Ile Ala Val	Glu Gly Pro Ser Lys	Ala Glu Ile
2225	2230	2235	
Thr Phe	Asp Asp His Lys Asn	Gly Ser Cys Gly Val	Ser Tyr Ile
2240	2245	2250	
Ala Gln	Glu Pro Gly Asn Tyr	Glu Val Ser Ile Lys	Phe Asn Asp
2255	2260	2265	
Glu His	Ile Pro Glu Ser Pro	Tyr Leu Val Pro Val	Ile Ala Pro
2270	2275	2280	
Ser Asp	Asp Ala Arg Arg Leu	Thr Val Met Ser Leu	Gln Glu Ser
2285	2290	2295	
Gly Leu	Lys Val Asn Gln Pro	Ala Ser Phe Ala Ile	Arg Leu Asn
2300	2305	2310	
Gly Ala	Lys Gly Lys Ile Asp	Ala Lys Val His Ser	Pro Ser Gly
2315	2320	2325	
Ala Val	Glu Glu Cys His Val	Ser Glu Leu Glu Pro	Asp Lys Tyr
2330	2335	2340	
Ala Val	Arg Phe Ile Pro His	Glu Asn Gly Val His	Thr Ile Asp
2345	2350	2355	
Val Lys	Phe Asn Gly Ser His	Val Val Gly Ser Pro	Phe Lys Val
2360	2365	2370	
Arg Val	Gly Glu Pro Gly Gln	Ala Gly Asn Pro Ala	Leu Val Ser
2375	2380	2385	
Ala Tyr	Gly Thr Gly Leu Glu	Gly Gly Thr Thr Gly	Ile Gln Ser
2390	2395	2400	
Glu Phe	Phe Ile Asn Thr Thr	Arg Ala Gly Pro Gly	Thr Leu Ser
2405	2410	2415	
Val Thr	Ile Glu Gly Pro Ser	Lys Val Lys Met Asp	Cys Gln Glu
2420	2425	2430	
Thr Pro	Glu Gly Tyr Lys Val	Met Tyr Thr Pro Met	Ala Pro Gly
2435	2440	2445	
Asn Tyr	Leu Ile Ser Val Lys	Tyr Gly Gly Pro Asn	His Ile Val
2450	2455	2460	
Gly Ser	Pro Phe Lys Ala Lys	Val Thr Gly Gln Arg	Leu Val Ser
2465	2470	2475	
Pro Gly	Ser Ala Asn Glu Thr	Ser Ser Ile Leu Val	Glu Ser Val
2480	2485	2490	
Thr Arg	Ser Ser Thr Glu Thr	Cys Tyr Ser Ala Ile	Pro Lys Ala
2495	2500	2505	
Ser Ser	Asp Ala Ser Lys Val	Thr Ser Lys Gly Ala	Gly Leu Ser
2510	2515	2520	
Lys Ala	Phe Val Gly Gln Lys	Ser Ser Phe Leu Val	Asp Cys Ser
2525	2530	2535	
Lys Ala	Gly Ser Asn Met Leu	Leu Ile Gly Val His	Gly Pro Thr
2540	2545	2550	
Thr Pro	Cys Glu Glu Val Ser	Met Lys His Val Gly	Asn Gln Gln
2555	2560	2565	
Tyr Asn	Val Thr Tyr Val Val	Lys Glu Arg Gly Asp	Tyr Val Leu
2570	2575	2580	
Ala Val	Lys Trp Gly Glu Glu	His Ile Pro Gly Ser	Pro Phe His
2585	2590	2595	
Val Thr	Val Pro		
2600			

<210> 504  
 <211> 760  
 <212> PRT  
 <213> Homo sapiens  
 <400> 504  
 Met Met Asp Gln Ala Arg Ser Ala Phe Ser Asn Leu Phe Gly Gly Glu  
 1 5 10 15  
 Pro Leu Ser Tyr Thr Arg Phe Ser Leu Ala Arg Gln Val Asp Gly Asp  
 20 25 30  
 Asn Ser His Val Glu Met Lys Leu Ala Val Asp Glu Glu Glu Asn Ala  
 35 40 45  
 Asp Asn Asn Thr Lys Ala Asn Val Thr Lys Pro Lys Arg Cys Ser Gly  
 50 55 60  
 Ser Ile Cys Tyr Gly Thr Ile Ala Val Ile Val Phe Phe Leu Ile Gly  
 65 70 75 80  
 Phe Met Ile Gly Tyr Leu Gly Tyr Cys Lys Gly Val Glu Pro Lys Thr  
 85 90 95  
 Glu Cys Glu Arg Leu Ala Gly Thr Glu Ser Pro Val Arg Glu Glu Pro  
 100 105 110  
 Gly Glu Asp Phe Pro Ala Ala Arg Arg Leu Tyr Trp Asp Asp Leu Lys  
 115 120 125  
 Arg Lys Leu Ser Glu Lys Leu Asp Ser Thr Asp Phe Thr Ser Thr Ile  
 130 135 140  
 Lys Leu Leu Asn Glu Asn Ser Tyr Val Pro Arg Glu Ala Gly Ser Gln  
 145 150 155 160  
 Lys Asp Glu Asn Leu Ala Leu Tyr Val Glu Asn Gln Phe Arg Glu Phe  
 165 170 175  
 Lys Leu Ser Lys Val Trp Arg Asp Gln His Phe Val Lys Ile Gln Val  
 180 185 190  
 Lys Asp Ser Ala Gln Asn Ser Val Ile Ile Val Asp Lys Asn Gly Arg  
 195 200 205  
 Leu Val Tyr Leu Val Glu Asn Pro Gly Gly Tyr Val Ala Tyr Ser Lys  
 210 215 220  
 Ala Ala Thr Val Thr Gly Lys Leu Val His Ala Asn Phe Gly Thr Lys  
 225 230 235 240  
 Lys Asp Phe Glu Asp Leu Tyr Thr Pro Val Asn Gly Ser Ile Val Ile  
 245 250 255  
 Val Arg Ala Gly Lys Ile Thr Phe Ala Glu Lys Val Ala Asn Ala Glu  
 260 265 270  
 Ser Leu Asn Ala Ile Gly Val Leu Ile Tyr Met Asp Gln Thr Lys Phe  
 275 280 285  
 Pro Ile Val Asn Ala Glu Leu Ser Phe Phe Gly His Ala His Leu Gly  
 290 295 300  
 Thr Gly Asp Pro Tyr Thr Pro Gly Phe Pro Ser Phe Asn His Thr Gln  
 305 310 315 320  
 Phe Pro Pro Ser Arg Ser Ser Gly Leu Pro Asn Ile Pro Val Gln Thr  
 325 330 335  
 Ile Ser Arg Ala Ala Ala Glu Lys Leu Phe Gly Asn Met Glu Gly Asp  
 340 345 350  
 Cys Pro Ser Asp Trp Lys Thr Asp Ser Thr Cys Arg Met Val Thr Ser  
 355 360 365  
 Glu Ser Lys Asn Val Lys Leu Thr Val Ser Asn Val Leu Lys Glu Ile  
 370 375 380  
 Lys Ile Leu Asn Ile Phe Gly Val Ile Lys Gly Phe Val Glu Pro Asp  
 385 390 395 400  
 His Tyr Val Val Val Gly Ala Gln Arg Asp Ala Trp Gly Pro Gly Ala  
 405 410 415  
 Ala Lys Ser Gly Val Gly Thr Ala Leu Leu Leu Lys Leu Ala Gln Met  
 420 425 430  
 Phe Ser Asp Met Val Leu Lys Asp Gly Phe Gln Pro Ser Arg Ser Ile  
 435 440 445  
 Ile Phe Ala Ser Trp Ser Ala Gly Asp Phe Gly Ser Val Gly Ala Thr  
 450 455 460  
 Glu Trp Leu Glu Gly Tyr Leu Ser Ser Leu His Leu Lys Ala Phe Thr  
 465 470 475 480  
 Tyr Ile Asn Leu Asp Lys Ala Val Leu Gly Thr Ser Asn Phe Lys Val  
 485 490 495  
 Ser Ala Ser Pro Leu Leu Tyr Thr Leu Ile Glu Lys Thr Met Gln Asn  
 500 505 510

Val Lys His Pro Val Thr Gly Gln Phe Leu Tyr Gln Asp Ser Asn Trp  
 515 520 525  
 Ala Ser Lys Val Glu Lys Leu Thr Leu Asp Asn Ala Ala Phe Pro Phe  
 530 535 540  
 Leu Ala Tyr Ser Gly Ile Pro Ala Val Ser Phe Cys Phe Cys Glu Asp  
 545 550 555 560  
 Thr Asp Tyr Pro Tyr Leu Gly Thr Thr Met Asp Thr Tyr Lys Glu Leu  
 565 570 575  
 Ile Glu Arg Ile Pro Glu Leu Asn Lys Val Ala Arg Ala Ala Glu  
 580 585 590  
 Val Ala Gly Gln Phe Val Ile Lys Leu Thr His Asp Val Glu Leu Asn  
 595 600 605  
 Leu Asp Tyr Glu Arg Tyr Asn Ser Gln Leu Leu Ser Phe Val Arg Asp  
 610 615 620  
 Leu Asn Gln Tyr Arg Ala Asp Ile Lys Glu Met Gly Leu Ser Leu Gln  
 625 630 635 640  
 Trp Leu Tyr Ser Ala Arg Gly Asp Phe Phe Arg Ala Thr Ser Arg Leu  
 645 650 655  
 Thr Thr Asp Phe Gly Asn Ala Glu Lys Thr Asp Arg Phe Val Met Lys  
 660 665 670  
 Lys Leu Asn Asp Arg Val Met Arg Val Glu Tyr His Phe Leu Ser Pro  
 675 680 685  
 Tyr Val Ser Pro Lys Glu Ser Pro Phe Arg His Val Phe Trp Gly Ser  
 690 695 700  
 Gly Ser His Thr Leu Pro Ala Leu Leu Glu Asn Leu Lys Leu Arg Lys  
 705 710 715 720  
 Gln Asn Asn Gly Ala Phe Asn Glu Thr Leu Phe Arg Asn Gln Leu Ala  
 725 730 735  
 Leu Ala Thr Trp Thr Ile Gln Gly Ala Ala Asn Ala Leu Ser Gly Asp  
 740 745 750  
 Val Trp Asp Ile Asp Asn Glu Phe  
 755 760

<210> 505  
 <211> 611  
 <212> PRT  
 <213> Homo sapiens  
 <400> 505

Met Ala Ala Ser Ala Lys Lys Lys Asn Lys Lys Gly Lys Thr Ile Ser  
 1 5 10 15  
 Leu Thr Asp Phe Leu Ala Glu Asp Gly Gly Thr Gly Gly Gly Ser Thr  
 20 25 30  
 Tyr Val Ser Lys Pro Val Ser Trp Ala Asp Glu Thr Asp Asp Leu Glu  
 35 40 45  
 Gly Asp Val Ser Thr Thr Trp His Ser Asn Asp Asp Asp Val Tyr Arg  
 50 55 60  
 Ala Pro Pro Ile Asp Arg Ser Ile Leu Pro Thr Ala Pro Arg Ala Ala  
 65 70 75 80  
 Arg Glu Pro Asn Ile Asp Arg Ser Arg Leu Pro Lys Ser Pro Pro Tyr  
 85 90 95  
 Thr Ala Phe Leu Gly Asn Leu Pro Tyr Asp Val Thr Glu Glu Ser Ile  
 100 105 110  
 Lys Glu Phe Phe Arg Gly Leu Asn Ile Ser Ala Val Arg Leu Pro Arg  
 115 120 125  
 Glu Pro Ser Asn Pro Glu Arg Leu Lys Gly Phe Gly Tyr Ala Glu Phe  
 130 135 140  
 Glu Asp Leu Asp Ser Leu Leu Ser Ala Leu Ser Leu Asn Glu Glu Ser  
 145 150 155 160  
 Leu Gly Asn Arg Arg Ile Arg Val Asp Val Ala Asp Gln Ala Gln Asp  
 165 170 175  
 Lys Asp Arg Asp Asp Arg Ser Phe Gly Arg Asp Arg Asn Arg Asp Ser  
 180 185 190  
 Asp Lys Thr Asp Thr Asp Trp Arg Ala Arg Pro Ala Thr Asp Ser Phe  
 195 200 205  
 Asp Asp Tyr Pro Pro Arg Arg Gly Asp Asp Ser Phe Gly Asp Lys Tyr  
 210 215 220  
 Arg Asp Arg Tyr Asp Ser Asp Arg Tyr Arg Asp Gly Tyr Arg Asp Gly  
 225 230 235 240  
 Tyr Arg Asp Gly Pro Arg Arg Asp Met Asp Arg Tyr Gly Gly Arg Asp

245  
 Arg Tyr Asp Asp Arg Gly Ser Arg Asp Tyr Asp Arg Gly Tyr Asp Ser  
 260  
 Arg Ile Gly Ser Gly Arg Arg Ala Phe Gly Ser Gly Tyr Arg Arg Asp  
 275  
 Asp Asp Tyr Arg Gly Gly Gly Asp Arg Tyr Glu Asp Arg Tyr Asp Arg  
 290  
 Arg Asp Asp Arg Ser Trp Ser Ser Arg Asp Asp Tyr Ser Arg Asp Asp  
 305  
 Tyr Arg Arg Asp Asp Arg Gly Pro Pro Gln Arg Pro Lys Leu Asn Leu  
 325  
 Lys Pro Arg Ser Thr Pro Glu Glu Asp Asp Ser Ser Ala Ser Thr Ser  
 340  
 Gln Ser Thr Arg Ala Ala Ser Ile Phe Gly Gly Ala Lys Pro Val Asp  
 355  
 Thr Ala Ala Arg Glu Arg Glu Val Glu Glu Arg Leu Gln Lys Glu Gln  
 370  
 Glu Lys Leu Gln Arg Gln Trp Asn Glu Pro Lys Leu Glu Arg Arg Pro  
 385  
 Arg Glu Arg His Pro Ser Trp Arg Ser Glu Glu Thr Gln Glu Arg Glu  
 405  
 Arg Ser Arg Thr Gly Ser Glu Ser Ser Gln Thr Gly Thr Ser Thr Thr  
 420  
 Ser Ser Arg Asn Ala Arg Arg Arg Glu Ser Glu Lys Ser Leu Glu Asn  
 435  
 Glu Thr Leu Asn Lys Glu Glu Asp Cys His Ser Pro Thr Ser Lys Pro  
 450  
 Pro Lys Pro Asp Gln Pro Leu Lys Val Met Pro Ala Pro Pro Pro Lys  
 465  
 Glu Asn Ala Trp Val Lys Arg Ser Ser Asn Pro Pro Ala Arg Ser Gln  
 485  
 Ser Ser Asp Thr Glu Gln Gln Ser Pro Thr Ser Gly Gly Gly Lys Val  
 500  
 Ala Pro Ala Gln Pro Ser Glu Glu Gly Pro Gly Arg Lys Asp Glu Asn  
 515  
 Lys Val Asp Gly Met Asn Ala Pro Lys Gly Gln Thr Gly Asn Ser Ser  
 530  
 Arg Gly Pro Gly Asp Gly Gly Asn Arg Asp His Trp Lys Glu Ser Asp  
 545  
 Arg Lys Asp Gly Lys Lys Asp Gln Asp Ser Arg Ser Ala Pro Glu Pro  
 565  
 Lys Lys Pro Glu Glu Asn Pro Ala Ser Lys Phe Ser Ser Ala Ser Lys  
 580  
 Tyr Ala Ala Leu Ser Val Asp Gly Glu Asp Glu Asn Glu Gly Glu Asp  
 595  
 Tyr Ala Glu  
 610

&lt;210&gt; 506

&lt;211&gt; 379

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 506

Met Ala Ala Ala Ala Gln Gly Gly Gly Gly Gly Glu Pro Arg Arg  
 1  
 Thr Glu Gly Val Gly Pro Gly Val Pro Gly Glu Val Glu Met Val Lys  
 20  
 Gly Gln Pro Phe Asp Val Gly Pro Arg Tyr Thr Gln Leu Gln Tyr Ile  
 35  
 Gly Glu Gly Ala Tyr Gly Met Val Ser Ser Ala Tyr Asp His Val Arg  
 50  
 Lys Thr Arg Val Ala Ile Lys Lys Ile Ser Pro Phe Glu His Gln Thr  
 65  
 Tyr Cys Gln Arg Thr Leu Arg Glu Ile Gln Ile Leu Leu Arg Phe Arg  
 85  
 His Glu Asn Val Ile Gly Ile Arg Asp Ile Leu Arg Ala Ser Thr Leu  
 100  
 Glu Ala Met Arg Asp Val Tyr Ile Val Gln Asp Leu Met Glu Thr Asp  
 115  
 120  
 125

Leu Tyr Lys Leu Leu Lys Ser Gln Gln Leu Ser Asn Asp His Ile Cys  
 130 135 140  
 Tyr Phe Leu Tyr Gln Ile Leu Arg Gly Leu Lys Tyr Ile His Ser Ala  
 145 150 155 160  
 Asn Val Leu His Arg Asp Leu Lys Pro Ser Asn Leu Leu Ser Asn Thr  
 165 170 175  
 Thr Cys Asp Leu Lys Ile Cys Asp Phe Gly Leu Ala Arg Ile Ala Asp  
 180 185 190  
 Pro Glu His Asp His Thr Gly Phe Leu Thr Glu Tyr Val Ala Thr Arg  
 195 200 205  
 Trp Tyr Arg Ala Pro Glu Ile Met Leu Asn Ser Lys Gly Tyr Thr Lys  
 210 215 220  
 Ser Ile Asp Ile Trp Ser Val Gly Cys Ile Leu Ala Glu Met Leu Ser  
 225 230 235 240  
 Asn Arg Pro Ile Phe Pro Gly Lys His Tyr Leu Asp Gln Leu Asn His  
 245 250 255  
 Ile Leu Gly Ile Leu Gly Ser Pro Ser Gln Glu Asp Leu Asn Cys Ile  
 260 265 270  
 Ile Asn Met Lys Ala Arg Asn Tyr Leu Gln Ser Leu Pro Ser Lys Thr  
 275 280 285  
 Lys Val Ala Trp Ala Lys Leu Phe Pro Lys Ser Asp Ser Lys Ala Leu  
 290 295 300  
 Asp Leu Leu Asp Arg Met Leu Thr Phe Asn Pro Asn Lys Arg Ile Thr  
 305 310 315 320  
 Val Glu Glu Ala Leu Ala His Pro Tyr Leu Glu Gln Tyr Tyr Asp Pro  
 325 330 335  
 Thr Asp Glu Pro Val Ala Glu Glu Pro Phe Thr Phe Ala Met Glu Leu  
 340 345 350  
 Asp Asp Leu Pro Lys Glu Arg Leu Lys Glu Leu Ile Phe Gln Glu Thr  
 355 360 365  
 Ala Arg Phe Gln Pro Gly Val Leu Glu Ala Pro  
 370 375

&lt;210&gt; 507

&lt;211&gt; 351

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

Met Thr Trp Ser Ala Thr Ala Arg Gly Ala His Gln Pro Asp Asn Thr  
 1 5 10 15  
 Ala Phe Thr Gln Gln Arg Leu Pro Ala Trp Gln Pro Leu Leu Ser Ala  
 20 25 30  
 Ser Ile Ala Leu Pro Leu Phe Phe Cys Ala Gly Leu Ala Phe Ile Gly  
 35 40 45  
 Leu Gly Leu Gly Leu Tyr Tyr Ser Ser Asn Gly Ile Lys Glu Leu Glu  
 50 55 60  
 Tyr Asp Tyr Thr Gly Asp Pro Gly Thr Gly Asn Cys Ser Val Cys Ala  
 65 70 75 80  
 Ala Ala Gly Gln Gly Arg Ala Leu Pro Pro Pro Cys Ser Cys Ala Trp  
 85 90 95  
 Tyr Phe Ser Leu Pro Glu Leu Phe Gln Gly Pro Val Tyr Leu Tyr Tyr  
 100 105 110  
 Glu Leu Thr Asn Phe Tyr Gln Asn Asn Arg Arg Tyr Gly Val Ser Arg  
 115 120 125  
 Asp Asp Ala Gln Leu Ser Gly Leu Pro Ser Ala Leu Arg His Pro Val  
 130 135 140  
 Asn Glu Cys Ala Pro Tyr Gln Arg Ser Ala Ala Gly Leu Pro Ile Ala  
 145 150 155 160  
 Pro Cys Gly Ala Ile Ala Asn Ser Leu Phe Asn Asp Ser Phe Ser Leu  
 165 170 175  
 Trp His Gln Arg Gln Pro Gly Gly Pro Tyr Val Glu Val Pro Leu Asp  
 180 185 190  
 Arg Ser Gly Ile Ala Trp Trp Thr Asp Tyr His Val Lys Phe Arg Asn  
 195 200 205  
 Pro Pro Leu Val Asn Gly Ser Leu Ala Leu Ala Phe Gln Gly Thr Ala  
 210 215 220  
 Pro Pro Pro Asn Trp Arg Arg Pro Val Tyr Glu Leu Ser Pro Asp Pro  
 225 230 235 240  
 Asn Asn Thr Gly Phe Ile Asn Gln Asp Phe Val Val Trp Met Arg Thr

245  
 Ala Ala Leu Pro Thr Phe Arg Lys Leu Tyr Ala Arg Ile Arg Gln Gly  
 260 265 270  
 Asn Tyr Ser Ala Gly Leu Pro Arg Gly Ala Tyr Arg Val Asn Ile Thr  
 275 280 285  
 Tyr Asn Tyr Pro Val Arg Ala Phe Gly Gly His Lys Leu Leu Ile Phe  
 290 295 300  
 Ser Ser Ile Ser Trp Met Gly Gly Lys Asn Pro Phe Leu Gly Ile Ala  
 305 310 315 320  
 Tyr Leu Val Val Gly Ser Leu Cys Ile Leu Thr Gly Phe Val Met Leu  
 325 330 335  
 Val Val Tyr Ile Arg Tyr Gln Asp Gln Asp Asp Asp Asp Glu Glu  
 340 345 350

<210> 508  
 <211> 524  
 <212> PRT  
 <213> Homo sapiens  
 <400> 508

Met Gly Lys Pro Ala Arg Lys Gly Cys Glu Trp Lys Arg Phe Leu Lys  
 1 5 10 15  
 Asn Asn Trp Val Leu Leu Ser Thr Val Ala Ala Val Val Leu Gly Ile  
 20 25 30  
 Thr Thr Gly Val Leu Val Arg Glu His Ser Asn Leu Ser Thr Leu Glu  
 35 40 45  
 Lys Phe Tyr Phe Ala Phe Pro Gly Glu Ile Leu Met Arg Met Leu Lys  
 50 55 60  
 Leu Ile Ile Leu Pro Leu Ile Ile Ser Ser Met Ile Thr Gly Val Ala  
 65 70 75 80  
 Ala Leu Asp Ser Asn Val Ser Gly Lys Ile Gly Val Arg Ala Val Val  
 85 90 95  
 Tyr Tyr Phe Cys Thr Thr Leu Ile Ala Val Ile Leu Gly Ile Val Leu  
 100 105 110  
 Val Val Ser Ile Lys Pro Gly Val Thr Gln Lys Val Gly Glu Ile Ala  
 115 120 125  
 Arg Thr Gly Ser Thr Pro Glu Val Ser Thr Val Asp Ala Met Leu Asp  
 130 135 140  
 Leu Ile Arg Asn Met Phe Pro Glu Asn Leu Val Gln Ala Cys Phe Gln  
 145 150 155 160  
 Gln Tyr Lys Thr Lys Arg Glu Glu Val Lys Pro Pro Ser Asp Pro Glu  
 165 170 175  
 Met Asn Met Thr Glu Glu Ser Phe Thr Ala Val Met Thr Thr Ala Ile  
 180 185 190  
 Ser Lys Asn Lys Thr Lys Glu Tyr Lys Ile Val Gly Met Tyr Ser Asp  
 195 200 205  
 Gly Ile Asn Val Leu Gly Leu Ile Val Phe Cys Leu Val Phe Gly Leu  
 210 215 220  
 Val Ile Gly Lys Met Gly Glu Lys Gly Gln Ile Leu Val Asp Phe Phe  
 225 230 235 240  
 Asn Ala Leu Ser Asp Ala Thr Met Lys Ile Val Gln Ile Ile Met Cys  
 245 250 255  
 Tyr Met Pro Leu Gly Ile Leu Phe Leu Ile Ala Gly Lys Ile Ile Glu  
 260 265 270  
 Val Glu Asp Trp Glu Ile Phe Arg Lys Leu Gly Leu Tyr Met Ala Thr  
 275 280 285  
 Val Leu Thr Gly Leu Ala Ile His Ser Ile Val Ile Leu Pro Leu Ile  
 290 295 300  
 Tyr Phe Ile Val Val Arg Lys Asn Pro Phe Arg Phe Ala Met Gly Met  
 305 310 315 320  
 Ala Gln Ala Leu Leu Thr Ala Leu Met Ile Ser Ser Ser Ser Ala Thr  
 325 330 335  
 Leu Pro Val Thr Phe Arg Cys Ala Glu Glu Asn Asn Gln Val Asp Lys  
 340 345 350  
 Arg Ile Thr Arg Phe Val Leu Pro Val Gly Ala Thr Ile Asn Met Asp  
 355 360 365  
 Gly Thr Ala Leu Tyr Glu Ala Val Ala Ala Val Phe Ile Ala Gln Leu  
 370 375 380  
 Asn Asp Leu Asp Leu Gly Ile Gly Gln Ile Ile Thr Ile Ser Ile Thr  
 385 390 395 400



Ala Thr Ser Ala Ser Ile Gly Ala Ala Gly Val Pro Gln Ala Gly Leu  
 405 410 415  
 Val Thr Met Val Ile Val Leu Ser Ala Val Gly Leu Pro Ala Glu Asp  
 420 425 430  
 Val Thr Leu Ile Ile Ala Val Asp Trp Leu Leu Asp Arg Phe Arg Thr  
 435 440 445  
 Met Val Asn Val Leu Gly Asp Ala Phe Gly Thr Gly Ile Val Glu Lys  
 450 455 460  
 Leu Ser Lys Lys Glu Leu Glu Gln Met Asp Val Ser Ser Glu Val Asn  
 465 470 475 480  
 Ile Val Asn Pro Phe Ala Leu Glu Ser Thr Ile Leu Asp Asn Glu Asp  
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 Ser Asp Thr Lys Lys Ser Tyr Val Asn Gly Gly Phe Ala Val Asp Lys  
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 Ser Asp Thr Ile Ser Phe Thr Gln Thr Ser Gln Phe  
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&lt;210&gt; 509

&lt;211&gt; 416

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 509

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 35 40 45  
 Val Val Ala Ile Lys Ile Ile Asp Leu Glu Glu Ala Glu Asp Glu Ile  
 50 55 60  
 Glu Asp Ile Gln Gln Glu Ile Thr Val Leu Ser Gln Cys Asp Ser Ser  
 65 70 75 80  
 Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu Lys Gly Ser Lys Leu Trp  
 85 90 95  
 Ile Ile Met Glu Tyr Leu Gly Gly Gly Ser Ala Leu Asp Leu Leu Arg  
 100 105 110  
 Ala Gly Pro Phe Asp Glu Phe Gln Ile Ala Thr Met Leu Lys Glu Ile  
 115 120 125  
 Leu Lys Gly Leu Asp Tyr Leu His Ser Glu Lys Lys Ile His Arg Asp  
 130 135 140  
 Ile Lys Ala Ala Asn Val Leu Leu Ser Glu Gln Gly Asp Val Lys Leu  
 145 150 155 160  
 Ala Asp Phe Gly Val Ala Gly Gln Leu Thr Asp Thr Gln Ile Lys Arg  
 165 170 175  
 Asn Thr Phe Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Gln  
 180 185 190  
 Gln Ser Ala Tyr Asp Ser Lys Ala Asp Ile Trp Ser Leu Gly Ile Thr  
 195 200 205  
 Ala Ile Glu Leu Ala Lys Gly Glu Pro Pro Asn Ser Asp Met His Pro  
 210 215 220  
 Met Arg Val Leu Phe Leu Ile Pro Lys Asn Asn Pro Pro Thr Leu Val  
 225 230 235 240  
 Gly Asp Phe Thr Lys Ser Phe Lys Glu Phe Ile Asp Ala Cys Leu Asn  
 245 250 255  
 Lys Asp Pro Ser Phe Arg Pro Thr Ala Lys Glu Leu Leu Lys His Lys  
 260 265 270  
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 290 295 300  
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 305 310 315 320  
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 355 360 365  
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370	375	380
Ile Ala Val Ala Glu	Ala Ala Cys Pro Gly	Ile Thr Asp Lys Met Val
385	390	395
Lys Lys Leu Ile Glu	Lys Phe Gln Lys Cys	Ser Ala Asp Glu Ser Pro
405	410	415

&lt;210&gt; 510

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 510

Met Val Met Arg Pro Leu Trp Ser Leu Leu Leu Trp Glu Ala Leu Leu	1	5	10	15
Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser	20	25	30	35
Val Leu Leu Val Ala Ala Arg Pro Pro Gly Phe Gln Val Arg Glu Ala	40	45	50	55
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe	60	65	70	75
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala	80	85	90	95
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly	100	105	110	115
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro	120	125	130	135
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro	140	145	150	155
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys	160	165	170	175
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile	180	185	190	195
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro	200	205	210	215
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro	220	225	230	235
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser	240	245	250	255
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala	260	265	270	275
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Val Val Val Pro	280	285		
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp				
Cys Pro Cys Ser Gly Lys Lys Lys Lys Asp Val His Ala Asp Arg Val				
Gly Pro Glu Thr Glu Asn Pro Leu Val Gln Asp Leu Pro				

&lt;210&gt; 511

&lt;211&gt; 376

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 511

Met Asn His Ser Glu Arg Phe Val Phe Ile Ala Glu Trp Tyr Asp Pro	1	5	10	15
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Gly Ser Val Glu Met His Asp Val Lys Asn His Arg Thr Phe Leu Lys	40	45	50	55
Arg Thr Lys Tyr Asp Asn Leu His Leu Glu Asp Leu Phe Ile Gly Asn	60	65	70	75
Lys Val Asn Val Phe Ser Arg Gln Leu Val Leu Ile Asp Tyr Gly Asp	80	85	90	95
Gln Tyr Thr Ala Arg Gln Leu Gly Ser Arg Lys Glu Lys Thr Leu Ala	100	105	110	115
Ile Ile Lys Pro Asp Ala Ile Ser Lys Ala Gly Glu Ile Ile Glu Ile	120	125		
Ile Asn Lys Ala Gly Phe Thr Ile Thr Lys Leu Lys Met Met Met Leu				

Ser Arg Lys Glu Ala Leu Asp Phe His Val Asp His Gln Ser Arg Pro  
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 Phe Phe Asn Glu Leu Ile Gln Phe Ile Thr Thr Gly Pro Ile Ile Ala  
 145 150 155 160  
 Met Glu Ile Leu Arg Asp Asp Ala Ile Cys Glu Trp Lys Arg Leu Leu  
 165 170 175  
 Gly Pro Ala Asn Ser Gly Val Ala Arg Thr Asp Ala Ser Glu Ser Ile  
 180 185 190  
 Arg Ala Leu Phe Gly Thr Asp Gly Ile Arg Asn Ala Ala His Gly Pro  
 195 200 205  
 Asp Ser Phe Ala Ser Ala Ala Arg Glu Met Glu Leu Phe Phe Pro Ser  
 210 215 220  
 Ser Gly Gly Cys Gly Pro Ala Asn Thr Ala Lys Phe Thr Asn Cys Thr  
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 Cys Cys Ile Val Lys Pro His Ala Val Ser Glu Gly Leu Leu Gly Lys  
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